Chapter 1.
Getting Started

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Product Features

Small but Strong UMPC (Ultra Mobile PC)

- Intel ULV CPU (Optional)
- 512MB~Up To 1GB Memory (Optional)

7” WSVGA TFT LCD

- Basic Resolution of 1024x600 Pixels, Maximum Resolution of 2048x1536 Pixels (when an external display is connected)
- A Touch Screen and Touch Sensor buttons (optional) have been adopted allowing convenient input with your fingers.
- A Keypad has been adopted to easily enter characters
- A convenient mouse function (Mouse/Joystick, Mouse Button applied)

Powerful Multimedia Functions

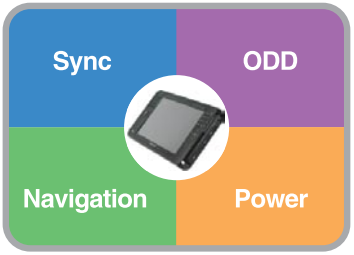
- Various Multimedia Programs Such as AVStation Premium etc.
- Dual camera for photographing and video recording (Optional)

Multiple Network Support

- Wired LAN, Wireless LAN, Bluetooth (Optional)
- Resolves Space Restrictions through the Wireless Communication Function

Compact, Light-Weight Design for Portability / Polished Design

- A mere 690g (1.52lb) (Without optional items)
- High-Gloss Front Panel



Optional Accessories for Additional Convenience

- USB Data Cable Enabling Data Exchange with another PC.
- USB External ODD(Optical Disk Drive), Ultra-Slim USB External Keyboard
- Power Bank to Extend Usage Time

Before You Start

Before reading the User Guide, first check the following information.

User Guide Information

This product is supplied with an **Getting Started Guide**, and a **User Guide**.

You can even more easily and conveniently use the computer by using any of the guides depending on your needs.

Getting Started Guide

This guide is provided so that you can conveniently refer to this guide when using the computer for the first time after purchasing it.

User Guide

You are currently reading the User Guide. To open the file at any time, double-click the icon on the Desktop.

Alternatively, select **Start > All Programs > Samsung>User Guide > User Guide**.

This document includes the computer functions, how to use the functions, and how to use the program.

Utilizating the User Guide

❶ Be sure to read the **Safety Precautions** before using the computer.

❷ For basic usage of the computer refer to the additionally supplied **Getting Started Guide**.

❸ Refer to the **User Guide** for the procedures to use the computer.

❹ Using the **Index** of the User Guide, you can easily find any information you are looking for.

❺ Using the **Glossary** of the User Guide, you can easily find meanings for technical terms.

❻ If a problem occurs, refer to the **Q & A** included in the User Guide.

- Some devices and software referred in the User Guide may not be provided and/or changed by upgrade.
  Note that the computer environment referred in the User Guide may not be the same as your own environment.
- The image used for the cover and text of the User Guide may not be the same as actual product.

- This guide decribes procedures for both the mouse and the stylus pen together.
  A '**Click**' in this manual refers to a '**Single-tap'** for the Stylus Pen.
- The figures in this guide are provided assuming that your operating system is Windows XP. The figures are subject to change.
- The User guide supplied with computer may be varied depending on model.

Safety Precaution Notations

Icon	Notation	Description
	Warning	Failing to follow instructions marked with this symbol, may cause personal injury and or fatality.
	Caution	Failing to follow instructions marked with this symbol, may cause slight injury to yourself or damage your property.

Text Notations

Icon	Notation	Description
	Before You Start	Content included in this section includes information required before using a function.
	Caution	Content included in this section includes information required about the function.
	Note	Content included in this section includes helpful information to use the function.
	Page XX	This notation represents the page number you can refer to for information about related functions or as a reference.
	Start > All Programs > Samsung > User Guide > User Guide	This represents a menu path to run a program. Click the Start button and then select **All Programs > Samsung > User Guide > User Guide** in this order from the menu.

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The information in this document is subject to change without notice due to improving the performance of the product.

Samsung Electronics shall not be liable for any data loss. Please take care to avoid losing any important data and backup your data to prevent any such data loss.

Precautions for Operating System Support

If a problem occurs because of the reinstallation of other operating systems(OS) or a previous version of a OS pre-installed on this computer, or a software that does not support the OS, the company will not provide technical support, a replacement or refund, and if our service engineer visits you due to this problem, a service charge will be applied.

About the Product Capacity Representation Standard

The capacity of the storage device (HDD, SSD) of the manufacturer is calculated assuming that 1KB=1,000 Bytes.

However, the operating system (Windows) calculates the storage device capacity assuming that 1KB=1,024 Bytes, and therefore the capacity representation of the HDD in Windows is smaller than the actual capacity due to the difference in capacity calculation. (E.g. For a 80GB HDD, Windows represents the capacity as 74.5GB)

In addition, the capacity representation in Windows may be even smaller because some programs such as Recovery Solution may reside in a hidden area of the HDD.

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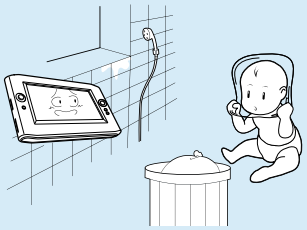
Safety Precautions

For your security and to prevent damage, please read the following safety instructions carefully. Since this is commonly applied to Samsung Computers, some figures may differ from actual product.

Warning

Failing to follow instructions marked with this symbol may cause personal injury and even fatality.

Installation Related

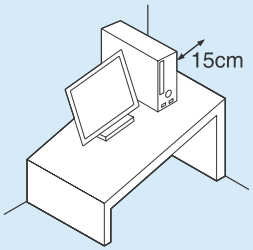


Do not install the product in places exposed to humidity such as a bathrooms.

There is a danger of electric shock. Use the product within the operating conditions specified in the Manufacturers User Guide.

Keep the plastic bags out of the reach of children.

There is a danger of suffocation.

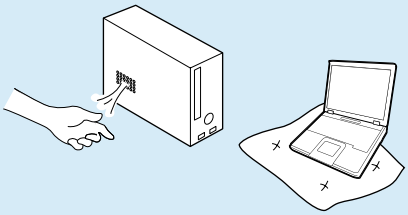


Keep a distance of 15cm or more between the computer and the wall and do not place any objects between them.

This may increase the internal temperature of the computer and may cause an injury.

Do not install the computer on a slant or a place prone to vibrations, or avoid using the computer in that location for a long time.

This increases the risk that a malfunction or damage to the product will occur.



Avoid exposing any part of your body to the heat from the computer vent for a long time when it is on.

Exposing a part of your body to the heat from the vent for long periods of time may cause a burn.

Avoid blocking the vent at the bottom or side of the computer when using it on a bed or cushion.

If the vent is blocked, there is a danger of damaging the computer or overheating the inside of the computer.

Power Related

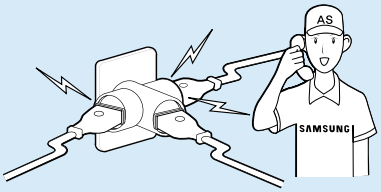
The power plug and wall outlet figures may differ depending on the country specifications and the product model.

Do not touch the mains plug or power cord with wet hands.

There is a danger of electric shock.

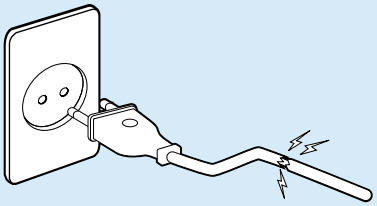
Do not exceed the standard capacity (voltage/current) of a multi-plug or power outlet extension when using it for the product.

There is a danger of electric shock or fire hazard.



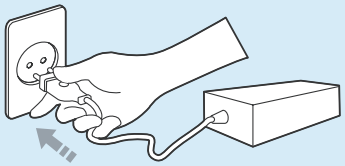
If the power cord or power outlet makes a noise, disconnect the power cord from the wall outlet and contact a service center.

There is a danger of electric shock or fire hazard.



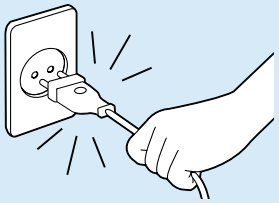
Do not use a damaged or loose mains plug or power cord or power outlet.

There is a danger of electric shock or fire hazard.



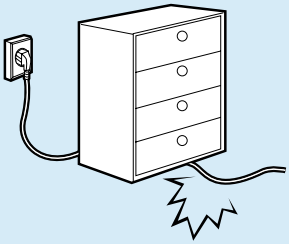
Plug the power cord firmly into the power outlet and AC adapter.

Failing to do so may cause fire hazard.



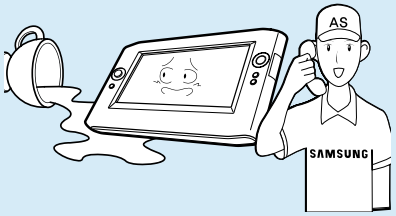
Do not unplug the power cord out by pulling the cable only.

If the cord is damaged, it may cause electric shock.



Do not bend the power cord excessively or do not place a heavy object over the power cord. It is especially important to keep the power cord out of reach of infants and pets.

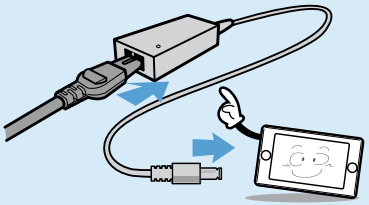
If the cord is damaged, it may cause electric shock or fire.



If water or another substance enters the power input jack, AC adapter or the computer, disconnect the power cord and contact the service center.

Damage to the device within the computer may cause electric shock or fire hazard.

AC Adapter Usage Precautions

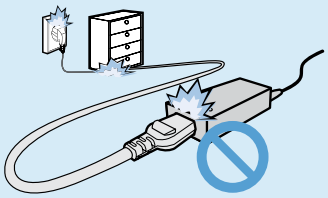


Do not place heavy objects or step onto the power cord or AC adapter to avoid damaging the power cord or AC adapter.

If the cord is damaged, there is a danger of electric shock or fire.

Use only the AC adapter supplied with the product.

Using another adapter may cause the screen to flicker.



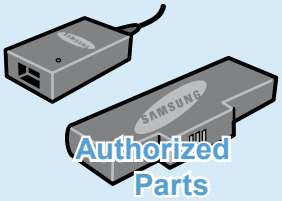
Connect the power cord to the AC adapter firmly.

Otherwise, there is a danger of fire due to an incomplete contact.

Battery Usage Related

Keep the battery out of the reach of infants and pets, as they could put the battery into their mouths.

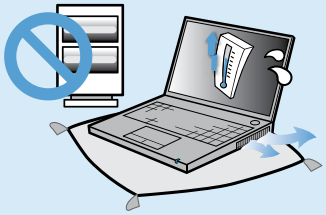
There is a danger of electric shock or choking.



Use an authorized battery and AC adapter only.

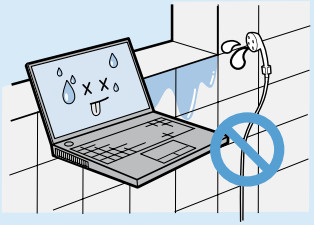
Please use an authorized battery and adapter approved by Samsung Electronics.

Unauthorized batteries and adapters may not meet the proper safety requirements and may cause problems or malfunctions and result in an explosion or fire.



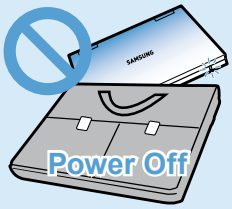
Do not use the computer in a badly ventilated location such as on bedding, on a pillow or cushion, etc, and do not use it in a location such as room with floor heating as it may cause the computer to overheat.

Take care that the computer vents (on the side or the bottom) are not blocked especially in these environments. If the vents are blocked, the computer may overheat and it may cause a computer problem, or even explosion.



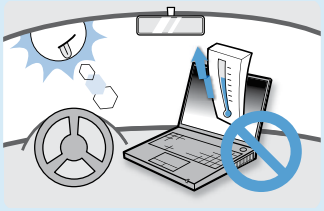
Do not use the computer in a humid location such as a bathroom or sauna.

Please use the computer within the recommended temperature and humidity range (10~35ºC, 20~80% RH).



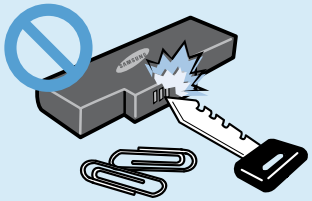
Do not close the LCD panel and put the computer into your bag to move it when it is still turned on.

If you put the computer into your bag without turning it off, the computer may overheat and there is a danger of fire. Shut the computer down properly before moving it.



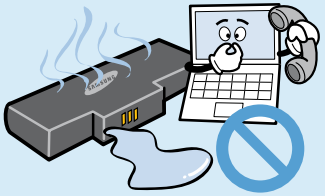
Never heat the battery or put the battery into a fire. Do not put or use the battery in a hot location such as a sauna, inside a vehicle exposed to the heat, and so on.

There is a danger of an explosion or fire.



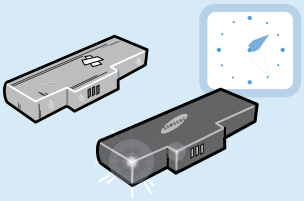
Take care not to allow metal objects such as a key or clip to touch the battery terminal (metal parts).

If a metal object touches the battery terminals, it may cause excessive current flow and it may damage the battery, or result in a fire.



If liquid leaks out of the battery or there is a funny smell coming from the battery, remove the battery from the computer and contact a service center.

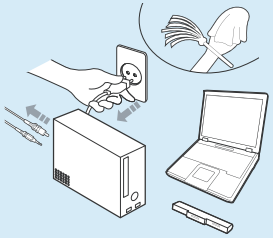
There is a danger of an explosion or fire.



To use the computer safely, replace a dead battery with a new, authorized battery.

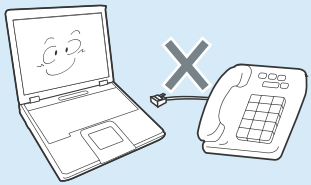
Please charge the battery fully before using the computer for the first time.

Usage Related



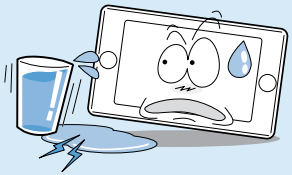
Disconnect all cables connected to the computer before cleaning it. If you are using a notebook computer, remove the battery.

There is a danger of electric shock or damage to the product.



Do not connect a phone line connected to a digital phone to the modem.

There is a danger of a electric shock, fire or damage to the product.

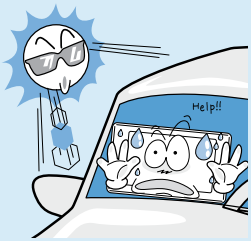


Do not place any container filled with water or chemicals over or near the computer.

If water or chemicals enter the computer, this may cause fire or electric shock.

If the computer is broken or dropped, disconnect the power cord and contact a service center for a safety check.

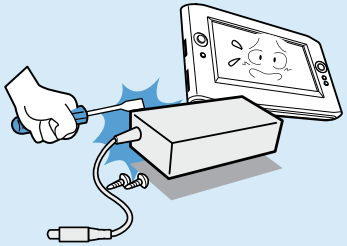
Using a broken computer may cause electric shock or fire hazard.



Avoid direct sunlight when the computer is in an air-tight location such as inside a vehicle.

There is a danger of a fire hazard. The computer may overheat and also present opportunity to thieves.

Upgrade Related

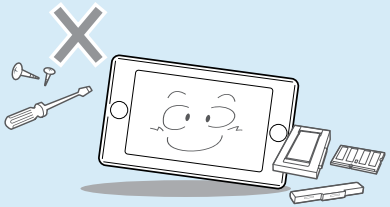


Never disassemble the power supply or AC adapter.

There is a danger of electric shock.

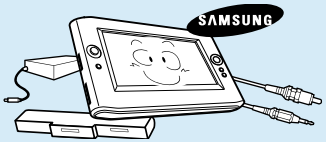
When removing the RTC (Real Time Clock) battery, keep it out of the reach of children as they could touch and/or swallow it.

There is a danger of choking. If a child has swallowed it, contact a doctor immediately.



Use only authorized parts (multi-plug, battery and memory) and never disassemble parts.

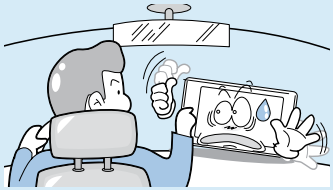
There is a danger of damaging the product, electric shock or fire hazard.



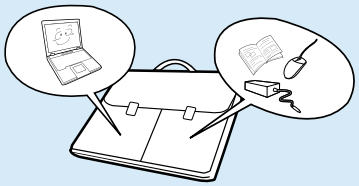
Shut down the computer and disconnect all cables before disassembling the computer. If there is a modem, disconnect the phone line. If you are using a notebook computer, make sure to remove the battery.

Failing to do so, may cause electric shock.

Custody and Movement Related



Follow the instructions for the relevant location (e.g. airplane, hospital, etc.) when using a wireless communication device (wireless LAN, Bluetooth, etc.).



When carrying the notebook computer with other items, such as the adapter, mouse, books etc, take care not to press anything against the notebook computer.

If a heavy object is pressed against the notebook computer, a white stop or stain may appear on the LCD. Therefore, take care not to apply any pressure to the notebook.

In this case, place the notebook computer in a separate compartment away from the other objects.

Caution

Failing to follow instructions marked with this symbol may cause slight injury or damage to the product.

Installation Related

Do not block the ports (holes), vents, etc. of the product and do not insert objects.

Damage to a component within the computer may cause electric shock or fire.

When using the computer with it lying on its side, place it so that the vents face upwards.

Failing to do so, may cause the internal temperature of the computer to rise and the computer to malfunction or halt.

Do not place a heavy object over the product.

This may cause a problem with the computer. In addition, the object may fall and cause injury, or damage the computer.

Battery Usage Related

Dispose of worn-out batteries properly.

- There is a danger of fire or explosion.
- The battery disposal method may differ depending on your country and region. Dispose of the used battery in an appropriate way.

Do not throw or disassemble the battery and do not put it into water.

This may cause an injury, fire or explosion.

Use only a battery authorized by Samsung Electronics.

Failing to do so may cause an explosion.

Avoid contact with metal objects such as car keys or clips when keeping or carrying a battery.

Contact with a metal may cause excessive current and a high temperature and may damage the battery or cause a fire.

Charge the battery according to the instructions in the manual.

Failing to do so, may cause an explosion or fire from damage to the product.

Do not heat the battery or expose it to heat (e.g. inside a vehicle during the summer).

There is a danger of explosion or fire.

Usage Related

Do not place a candle, lighted cigar, etc. over or on the product.
There is a danger of fire.

Use a wall outlet or multi-plug with a grounding part.
Failing to do so may cause an electric shock hazard.

Make sure to have the product tested by a safety service engineer after repairing the product.
Authorized Samsung Repair Centers will carry out safety checks after a repair. Using a repaired product without testing it for safety may cause an electric shock or fire.

In case of lightning, immediately turn the system off, disconnect the power cord from the wall outlet and line do not use a modem or phone.
There is a danger of electric shock or fire.

Do not use your computer and AC-Adapter on your lap or soft surfaces.
If the computer temperature increases, there is a danger of burning yourself.

Connect only permitted devices to the connectors or ports of the computer.
Failing to do so, may cause electric shock and fire.

Close the LCD panel only after checking if the notebook computer is turned off.
The temperature may rise and it may cause overheating and deformation of the product.

Do not press the Eject Button while the Floppy Disk/CD-ROM drive is in operation.
You might lose data and the disk might be suddenly ejected and could cause an injury.

Take care not to drop the product while using it.
This may cause personal injury or loss of data.

Do not contact the antenna with electricity facility such as the power outlet.
There is a danger of electric shock.

When handling computer parts, follow the instructions on the manual supplied with the parts.
Failing to do so, may cause damage to the product.

If the computer emits smoke, or there is a burning smell, disconnect the power plug from the wall outlet and contact a service center. If your computer is a notebook computer, make sure to remove the battery.
There is a danger of fire.

Do not use a damaged or modified CD/Floppy Disk.
There is a danger of damaging the product or personal injury.

Do not insert your fingers into the PC Card Slot.
There is a danger of injury or electric shock.

Use recommended computer cleansing solution when cleaning the product and only use the computer when it is completely dried.
Failing to do so may cause electric shock or fire.

Emergency disk eject method using paperclip should not be used while the disk is in motion. Make sure to use the emergency disk eject method only when the Optical Disk Drive is stopped.
There is a danger of injury.

Do not place your face close to the Optical Disk Drive tray when it is operating.
There is a danger of injury due to an abrupt ejection.

Check CDs for cracks and damage prior to use.
It may damage the disc and cause disorder of device and injury of user.

Upgrade Related

Take care when touching the product or parts.
The device may be damaged or you may be injured.

Take care not to throw or drop a computer part or device.
This may cause injury or damage to the product.

Make sure to close the computer cover before connecting the power after a reassembly.
There is a danger of electric shock if your body touches an internal part.

Use parts authorized by Samsung Electronics only.
Failing to do so, may cause fire or damage the product.

Never disassemble or repair the product by yourself.
There is a danger of electric shock or fire.

To connect a device that is not manufactured or authorized by Samsung Electronics, enquire at your service center before connecting the device.
There is a danger of damaging the product.

Custody and Movement Related

When moving the product, turn the power off and separate all connected cables first.
The product might be damaged or users may trip over the cables.

For long periods of not using the notebook computer, discharge the battery and preserve as it is detached.
The battery will be preserved at its best condition.

Keep the Stylus Pen out of reach of children.
hildren may injure themselves by swallowing it or damaging their eyes.

Use a computer cleansing solution when cleaning the product.
Using a cleansing solution or chemical that is not developed for a computer may damage the product.

Do not operate or watch the computer while driving a vehicle.
There is a danger of a traffic accident. Please concentrate on driving.

LCD Related

LCD Bad Pixels

The limits of LCD manufacturing technology permit a maximum of 4 abnormal or bad pixels, which does not affect the system performance. This system may have the same level of abnormal or bad pixels as any other company's products.

Cleaning the LCD

When cleaning the LCD panel, use only computer specific cleaners with a soft cloth, and lightly wipe in one direction.
Pressing down hard may damage the LCD.

Cautions on Preventing Data Loss (Hard Disk Management)

Take care not to damage the data on a hard disk drive.

- A hard disk drive is so sensitive to external impact that an external impact may cause loss of data on the surface of the disk.
- Take extra care, because moving the computer or an impact on the computer when it is turned on may damage the data of the hard disk drive.
- The company is not liable for any loss of any data caused by a customer's careless usage or bad environmental conditions.

Causes that may damage the data of a hard disk drive and the hard disk drive itself.

- The data may be lost when an external impact is applied to the disk while disassembling or assembling the computer.
- The data may be lost when the computer is turned off or reset by a power failure while the hard disk drive is operating.
- The data may be lost and irrecoverable due to a computer virus infection.
- The data may be lost if the power is turned off while running a program.
- Moving or causing an impact to the computer while the hard disk drive is operating, may cause files to be corrupted or bad sectors on the hard disk.

To prevent data loss due to damage to the hard disk drive, please backup your data frequently.

Proper Posture During Computer Use

Maintaining a proper posture during computer use is very important to prevent physical harm.

The following instructions are about maintaining a proper posture during computer use developed through human engineering. Please read and follow them carefully when using the computer.

Otherwise, the probability of (RSI: Repetitive Strain Injury) from repeated operations may increase and serious physical harm may be caused.

The instructions in this manual have been prepared so that they can be applied within the coverage of general users. If the user is not included in the coverage, the recommendation is to be applied according to the user's needs.

Since this is commonly applied to Samsung Computers, some figures may differ from actual product.

Proper Posture

- Do not use the computer on your lap or close to your skin for a long time.

  There is a danger of burns due to the high temperature of the computer.
- To use the computer while talking over the telephone, use the ear-microphone phone.

  When using the computer while holding a phone over your shoulder and talking on the phone, your posture becomes bad.
- Keep frequently used work items within an easy working range (where you can reach them with your hands easily).

Eye Position

Keep a distance of at least 50cm between the LCD and your eyes.

- Adjust the height of the LCD screen so that its top height is equal to or lower than your eyes.
- Avoid setting the LCD excessively bright.
- Keep the LCD screen clean.
- When wearing glasses, clean them before using the computer.

Hand Position

- It is recommended to connect and use an external keyboard and mouse when using the computer for a long time.
- Do not hold the Stylus Pen with excessive force.
- Do not press the touch screen with excessive force.

Volume Control (Headphones and Speakers)

Check your volume first to listen to music.

- Check if the volume is too loud before using headphones.
- Do not turn the volume to the maximum level right from the start. Instead, start the volume at a low level and increase it slowly while listening to the sound.
- It is not recommended using headphones for long periods of time.

Use Time (Break Time)

- Take a break for 10 minutes or more after a 50-minute period when working for more than one hour.

Illumination

- Do not use the computer in dark locations. The illumination level for computer use must be as bright so for reading a book.
- Indirect illumination is recommended. Use a curtain to prevent reflection on the LCD screen.

Operation Condition

- Do not use the computer in hot and humid locations.
- Use the computer within the allowed temperature and humidity range specified in the User Guide.

Safety instructions

Your system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.

Always follow these instructions to help guard against personal injury and damage to your system.

Setting Up your System

- Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should be operated only with the type of power source indicated on the rating label.
- Ensure that the electrical outlet you are using to power your equipment is easily accessible in case of a fire or short circuit.
- If your computer has a voltage selector switch, make sure that the switch is in the proper position for your area.
- Openings in the computer case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when you set up your work area. Never insert objects of any kind into the computer ventilation openings.
- Ensure that the fan vents on the bottom of the casing are clear at all times. Do not place the computer on a soft surface, doing so will block the bottom vents.
- If you use an extension cord with this system, make sure that the total power rating on the products plugged into the extension cord does not exceed the extension cord power rating.

Care During Use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to not eat or drink near your system.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturers instructions. If the CMOS battery requires replacement insure that a qualified technician performs the task.
- When the computer is turned off, a small amount of electrical current still flows through the computer. To avoid electrical shock, always unplug all power cables, remove the battery and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not operate properly when the operating instructions are followed.
  - The system was dropped or the casing is damaged.
  - The system performance changes.

The Instruction On Safety Operation of NotePC

1. When installing and operating devices please refer to safety requirements in the user guide.

2. Devices can be used only with the equipment specified in the technical specifications of the devices.

3. If there is a smell of burning or smoke coming from the computer, the unit should be switched off and the battery removed. The unit should be checked by a qualified technician before reuse.

4. Service and repair of devices should be carried out by authorized service centers.

5. Do not allow your portable computer to operate with the base resting directly on exposed skin for extended periods of time.
   The surface temperature of the base will rise during normal operation (particularly when AC Power is present).
   Allowing sustained contact with exposed skin can cause discomfort or eventually a burn.

Replacement Parts and Accessories

Use only replacement parts and accessories recommended by SAMSUNG.

Do not use this product in areas classified as hazardous. Such areas include patient care areas of medical and dental facilities, oxygen rich environments, or industrial areas.

Battery Disposal

Do not put rechargeable batteries or products powered by non-removable rechargeable batteries in the garbage.

Contact the Samsung Helpline for information on how to dispose of batteries that you cannot use or recharge any longer.
Follow all local regulations when disposing of old batteries.

IF YOU REPLACE THE BATTERYWITH AN INCORRECT TYPE, THERE IS A RISK OF EXPLOSION. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Connect and Disconnect the AC adapter

The socket-outlet shall be installed near the equipment and easily accessible.

Do not unplug the power plug by pulling the cable.

Power Cord Requirements

The power cord set (power plug, cable and AC adapter plug) you received with your computer meets the requirements for use in the country where you purchased your equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the computer. For more information on power cord set requirements, contact your authorized dealer, reseller, or service provider.

General Requirements

The requirements listed below are applicable to all countries:

- The length of the power cord set must be at least 6.00 feet (1.8m) and a maximum of 9.75 feet (3.0m).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 7 A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C7 connector, for matching with appliance inlet on the computer.

Wireless Guidance

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4GHz/5GHz Band, may be present (embedded) in your notebook system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, please contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The RF field strength of the wireless device or devices that may be embedded in your notebook are well below all international RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your notebook) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are on the following page:

- Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane.
  802.11ABGN (also known as wireless Ethernet or Wifi) and Bluetooth communication devices are examples of devices that provide wireless communication.
- In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.
- Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.
- If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.
- Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact manufacturer for service.
- Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer Technical Support for additional information.

United States of America

USA and Canada Safety Requirements and Notices

Do not touch or move the antenna while the unit is transmitting or receiving.

Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.

Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.

Use in specific environments:

The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.

The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).

The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.

Explosive Device Proximity Warning
Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.

Use On Aircraft Caution
Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

Other Wireless Devices

Safety Notices for Other Devices in the Wireless Network: Refer to the documentation supplied with wireless Ethernet adapters or other devices in the wireless network.

The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modifications to this product is not approved by Intel and could void the user's authority to operate this device.

Unintentional Emitter per FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: “Something About Interference.”

This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shielded data cables with this system.

Intentional emitter per FCC Part 15

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4GHz/5GHz Band, may be present (embedded) in your notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this device.

The FCC has set a general guideline of 20 cm (8 inches) separation between the device and the body, for use of a wireless device near the body (this does not include extremities). This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your notebook, is well below the RF exposure limits as set by the FCC.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

FCC Part 68 (If fitted with a modem device.)

This equipment compiles with part of the FCC rules. On the back of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following USOC jacks : RJ11C.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or promises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.

The REN is used to determine the quantity of devices which may be connected to telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by total RENs, contact the local telephone company to determine the maximum REN for the calling area.

If the terminal equipment causes harm to the telephone network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advanced notice in order for you to make necessary modifications to

maintain uninterrupted service.

If trouble is experienced with this equipment (Modem) for repair or warranty information, please contact your local distributor. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

The user must use the accessories and cables supplied by the manufacturer to get optimum performance from the product.

No repairs may be done by the customer.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be any number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax machine, refer to your communications software user manual.

European Union

European Union CE Marking and Compliance Notices

Products intended for sale within the European Union are marked with the Conformité Européene (CE) Marking, which indicates compliance with the applicable Directives and European standards and amendments identified below. This equipment also carries the Class 2 identifier.

The following information is only applicable to systems labeled with the CE mark CE.

European Directives

This Information Technology Equipment has been tested and found to comply with the following European directives:

- EMC Directive 89/336/EEC with amending directives 92/31/EEC & 93/68/EEC as per
  - EN 55022 Class B
  - EN 61000-3-2
  - EN 61000-3-3
  - EN 55024
- Low Voltage Directive (Safety) 73/23/EEC as per EN 60950-1:2001+A11
- Radio and Telecom Terminal Equipment Directive 199/5/EC as per
  - CTR21 (if fitted with a modem device)

– EN 300 328 (if fitted with a 2.4 GHz band embedded wireless device)

– EN 301 489-1 (if fitted with a 2.4 GHz band embedded wireless device)

– EN 301 489-17 (if fitted with a 2.4 GHz band embedded wireless device)

– EN 301 893 (if fitted with a 5GHz band embedded wireless device)

European Radio Approval Information (for products fitted with EU-approved radio devices)

This Product is a Notebook computer; low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4GHz/5GHz band, may be present (embedded) in your notebook system which is intended for home or office use. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the European Union or associated areas if a CE CE mark with a Notified Body Registration Number and the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in you notebook is well below the RF exposure limits as set by the European Commission through the R&TTE directive.

See 802.11b and 802.11g restrictions for specific countries or regions within countries under the heading “European Economic Area Restrictions” below.

Translated Statements of Compliance

[English]

This product follows the provisions of the European Directive 1999/5/EC.

[Danish]

Dette produkt er i overensstemmelse med det europæiske direktiv 1999/5/EC

[Dutch]

Dit product is in navolging van de bepalingen van Europees Directief 1999/5/EC.

[Finnish]

Tämä tuote noudattaa EU-direktiivin 1999/5/EC määräyksiä.

[French]

Ce produit est conforme aux exigences de la Directive Européenne 1999/5/EC.

[German]

Dieses Produkt entspricht den Bestimmungen der Europäischen Richtlinie 1999/5/EC

[Greek]

Το προϊόν αυτό πληροί τις προβλέψεις της Ευρωπαϊκής Οδηγίας 1999/5/EC.

[Icelandic]

Þessi vara stenst reglugerð Evrópska Efnahags Bandalagsins númer 1999/5/EC

[Italian]

Questo prodotto è conforme alla Direttiva Europea 1999/5/EC.

[Norwegian]

Dette produktet er i henhold til bestemmelsene i det europeiske direktivet 1999/5/EC.

[Portuguese]

Este produto cumpre com as normas da Diretiva Européia 1999/5/EC.

[Spanish]

Este producto cumple con las normas del Directivo Europeo 1999/5/EC.

[Swedish]

Denna produkt har tillverkats i enlighet med EG-direktiv 1999/5/EC.

European Economic Area Restrictions

Local Restriction of 802.11b/802.11g Radio Usage

[Note to integrator: The following statements on local restrictions must be published in all end-user documentation provided with the system or product incorporating the Wireless product.

Due to the fact that the frequencies used by 802.11b/802.11g wireless LAN devices may not yet be harmonized in all countries, 802.11b/802.11g products are designed for use only in specific countries or regions, and are not allowed to be operated in countries or regions other than those of designated use.

As a user of these products, you are responsible for ensuring that the products are used only in the countries or regions for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country or region of use. Any deviation from permissible settings and restrictions in the country or region of use could be an infringement of local law and may be punished as such.

The European variant is intended for use throughout the European Economic Area. However, authorization for use is further restricted in particular countries or regions within countries, as follows:

General

European standards dictate maximum radiated transmit power of 100 mW effective isotropic radiated power (EIRP) and the frequency range 2400 – 2483.5 MHz.

The low band 5.15 - 5.35 GHz is for indoor use only.

Belgium

The product may be used outdoors, but for outdoor transmissions over a distance of 300m or more, a license from the BIPT is required.

This restriction should be indicated in the manual as follows:

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France

For Metropolitan departments:

2.400 - 2.4835 GHz for indoor use.

2.400 - 2.454 GHz (channels 1 to 7) for outdoor use.

For Guadeloupe, Martinique, St Pierre et Miquelon, Mayotte:

2.400 - 2.4835 GHz for indoor and outdoor use.

For Reunion, Guyane:

2.400 - 2.4835 GHz for indoor use.

2.420 - 2.4835 GHz for outdoor use (channels 5 to 13)

The low band 5.15 - 5.35 GHz is for indoor use only.

European Telecommunication Information (for products fitted with EU-approved modems)

Marking by the symbol CE indicates compliance of this equipment to the Radio and Telecom Terminal Equipment Directive 1999/5/EC. Such marking is indicative that this equipment meets or exceeds the following technical standards:

CTR 21 – Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting voice telephony services) in which network addressing, if provided, is by means of Dual Tone Multi-Frequency (DTMF) signaling.

Although this equipment can use either loop disconnect (pulse) or DTMF (tone) signaling, only the performance of the DTMF signaling is subject to regulatory requirements for correct operation.

It is therefore strongly recommended that the equipment is set to use DTMF signaling for access to public or private emergency services. DTMF signaling also provides faster call setup.

This equipment has been approved to Council Decision 98/482/EEC-“CTR 21” for Pan-European single terminal connection to the Public Switched Telephone Network (PSTN).

However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact manufacturer Technical Support.

WEEE SYMBOL INFORMATION

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

USA ONLY

This Perchlorate warning applies only to primary CR (Maganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.

“Perchlorate Material- special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate.”

Contains Mercury, Dispose According to Local, State or Federal Laws.

For details see lamprecycle.org, eise.org, or call 1-800-Samsung.

Overview

- Optional items may be changed or may not be provided depending on the computer model.
- The actual color and appearance of the computer may differ from the pictures used in this guide.
- The shapes and characters of buttons may differ from actual product.

Front View

Status Indicators
Shows the computer operating status. p.42

LCD
Displays the computer screen.

Touch Sensor Buttons (Optional)
You can configure functions by lightly touching it with your finger. p.43

Keypad
Using the Keypad, users can enter letters or numbers directly.

Avoid dropping water on the keypad.

Camera (Optional)
Using the front side camera, you can take pictures or record video. p.127

Keypad

Speaker

User-Defined Button
You can configure this button to launch a frequently used program.

Speaker
Generates sound from the computer.

Enter Button
Press this button to run a selection. It performs the role of the Enter key on the keyboard.

Mouse/Joystick
You can use it as a mouse, joystick. p.59

Fingerprint sensor (Optional)
Using this sensor, you can use the fingerprint identification function. You can use it to identify whether a fingerprint is registered by placing a finger over it. p.136

Microphone (Optional)
The microphone is used to make a sound recording.

A built-in microphone is provided for some models.

Mouse Button
This performs the role of the left and right buttons of the mouse when the Mouse/Joystick is used as a mouse.

- **L Button**: A single press performs the role of a click and double pressing performs the role of a double-click.
- **R Button**: A single press performs the role of a right-click.

Status Indicators

Joystick

Press the **MOUSE** button above **Mouse/Joystick**. If the Joystick icon is lit, you can use it as a joystick when playing a game.

Mouse

Press the **MOUSE** button above **Mouse/Joystick**. If the Mouse icon is lit, you can use it as a mouse.

HDD

This is lit when the hard disk drive is accessed.

Power

This shows the computer's operating status.

On: When the computer is turned on.

Blink: When the computer is in Sleep mode. To wake the computer up from Sleep mode, slide the **Power Switch** downwards.

Wireless LAN

This is lit for models with wireless LAN capability when the Wireless LAN function is in operation.

Charge

This shows the AC adapter and battery status.

Green: When the battery is completely charged or is not installed.

Amber: When the battery is being charged.

Blink: When the **HOLD** switch is lifted up or a button is pressed in the **HOLD** (Lock) status.

Off: When the computer is running on battery power without an AC power supply.

Touch Sensor Buttons

You can run a function by lightly touching a Touch Sensor Button with your finger.

The Touch Sensor Buttons are optional and may not be provided depending on your computer model.

UDF

If you touch this button, the Easy Button Manager appears in which you can configure the User-Defined Button function.

MENU

If you touch this button, the MENU program will be launched.

The menu program provides a menu with the computer's frequently used functions. You can conveniently configure the functions.

VOL-, VOL+

You can adjust the volume.

Precautions for using the Touch Sensor Buttons

- The Touch Sensor Buttons only work when the computer is turned on.

- If you touch the Touch Sensor Buttons when the computer is locked, the lock icon will appear and the buttons will not work.

- Please ensure your hands are clean and dry when using the Touch Sensor Buttons.

  In a humid environment, remove any moisture from your hands and the Touch Sensor Button surface before use.

- Since the Touch Sensor Buttons are sensitive, do not press them using excessive force.

  Take care as excessive force may damage the sensor of the Touch Sensor Buttons.

- Do not press the buttons with a sharp object such as a Stylus Pen or ballpoint pen, as this may damage them.

- When you need to press a Touch Sensor Button, press the relevant Touch Sensor Button precisely using your finger taking care not to touch another Touch Sensor Button.

- The Touch Sensor Buttons may not work properly when you are wearing gloves or if the buttons are covered by plastic packaging or a protection panel.

- A Touch Sensor Button may malfunction when the Touch Sensor Button surface is touched by a conductive material such as a metal object.

Top View

- **Shutter (Optional)**
  (Only for the camera model)
  You can take pictures using the camera shutter. p.127
- **Internet Button (Optional)**
  (Only for some models that camera is not applied.)
  Launch Internet.
- **MENU Button (Optional)**
  (For models without a Camera and Touch Sensor buttons)
  Launches the MENU program.

Multi-Card Slot (Optional)
You can connect SD or MMC cards using this slot.

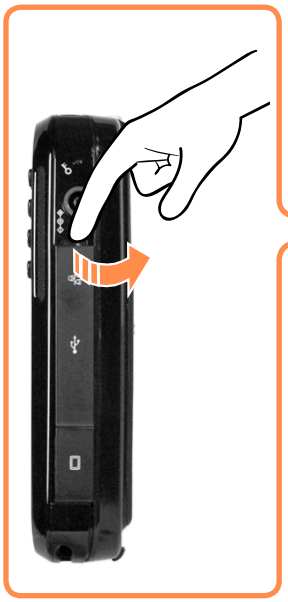
Headphone Jack
You can connect headphones using this jack.

USB Port
You can connect USB devices such as a USB keyboard/mouse, USB ODD (Optical Disk Drive), etc. using this port.

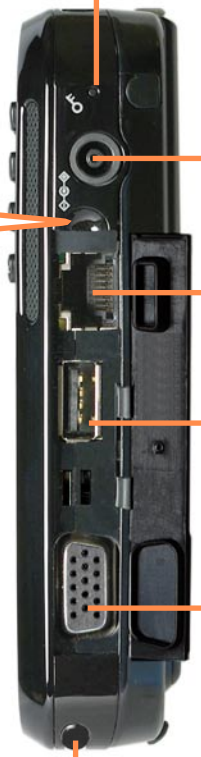
Vents
Emits heat generated inside the computer.

Avoid blocking the vents as this may overheat the computer.

Right View



Open the cover.



Windows Security Button

Pressing this button is the same as pressing the <Ctrl>+<Alt>+<Del> keys on the keyboard.
Press with the Stylus Pen.

Power IN Jack

The AC adapter which supplies power for the computer is connected here.

LAN Port

You can connect a LAN cable using this port.

USB Port

You can connect USB devices such as a USB keyboard/mouse, USB ODD, etc. using this port.

Monitor Port

You can connect a monitor, TV or projector supporting a 15pin D-SUB interface using this port.
p.67

Stylus Pen / Stylus Slot

Using this pen, you can enter information on the touch screen.
You can keep the Stylus Pen in the Stylus Slot.

Left View

Hand Strap Hole

You can attach a hand strap using this hole.

AV Button

If you press the AV button when the computer is turned off, Windows will boot up and the AVStation Viewer will be launched. p.122

Power Switch / HOLD Switch

❶ Power Switch Function

Slide the **switch** downwards to turn the computer on.

❷ HOLD Switch (Lock) Function

If you slide the **switch** upwards to the end (HOLD position), the Lock icon appears and the computer is Locked and you will not be able to use any function.

Slide the **switch** to the mid position to release the lock. Then you can use the computer normally.

Back View

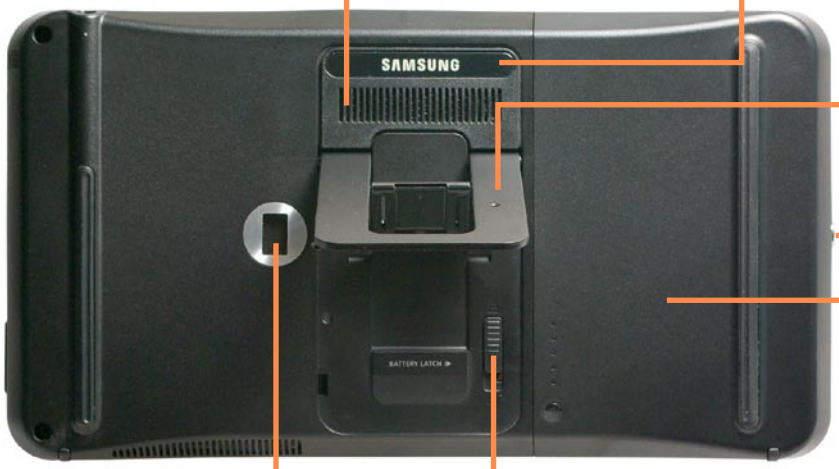
Vents

Emits heat generated inside the computer.

! Avoid blocking the vents as this may overheat the computer.

Camera (Optional)

Using the camera at the back, you can take pictures or record video.



Stand

Using the stand, you can use the screen at a comfortable angle.

Hand Strap Hole

Battery

A lithium-Ion rechargeable battery that supplies power for the computer. p.165

Battery Latch

The battery latch is used to separate or fix the battery. p.165

Hand Strap Hole

Connecting this hole and the hole of left side with hand strap allow you to fix hand.

Turning the Computer On and Off

Turning the computer on

1 Install the **battery** and connect the **AC adapter**.
(Refer to the **Getting Started Guide**.)

2 Adjust the **stand** at the back of the computer to a comfortable angle.

3 Slide the **Power Switch** downwards.

The computer is turned on.

When running the computer on battery power, the LCD brightness is dimmed automatically to save battery power.

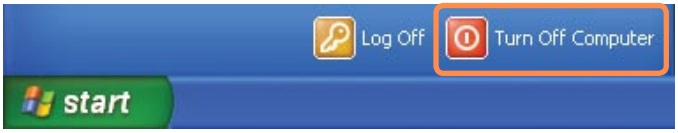
For the models with Touch Sensor buttons, press the **MENU** button and then press the ▽, △ buttons for the **Brightness** to adjust the LCD brightness. p.57

For models without Touch Sensor buttons, press the **User Defined buttons** (▲/▼) while holding down the **INTERNET** button below the **Mouse/Joystick** buttons to adjust the LCD brightness.

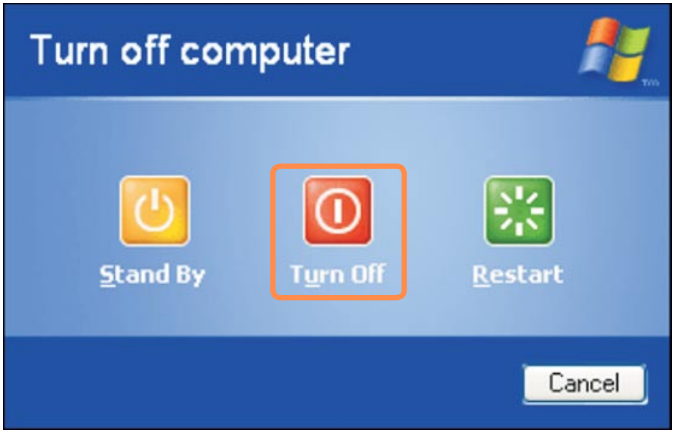
Turning the computer off

1 Click the **start** button (start) on the taskbar.

2 Click **Turn Off Computer**.



3 Click **Turn Off**.



If the computer does not shutdown due to a system error, slide the power switch down and hold it for more than 4 seconds to forcefully turn it off.

When turning the computer on again after it was turned off by sliding the power switch down and holding it, the system examination program may run.

Chapter 2.
Using the computer

Stylus Pen	52
Entering Text	56
Using the Buttons	57
Multi Card Slot	64
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Adjusting the Volume	71

Stylus Pen

A Stylus Pen is used instead of a mouse and provides the same function.

It is recommended to connect and use a USB keyboard and mouse when using the computer for a long time.

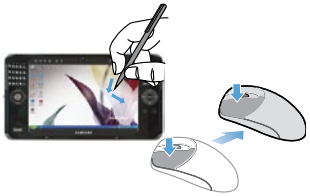
Taking the Stylus Pen Out

Take the Stylus Pen out to the right.

When finishing using the pen, return it to the Stylus Slot.

Operate the touch screen LCD with a **Stylus Pen** or your **finger**. Sharp objects may scratch or damage the LCD surface.

Stylus Pen Functions

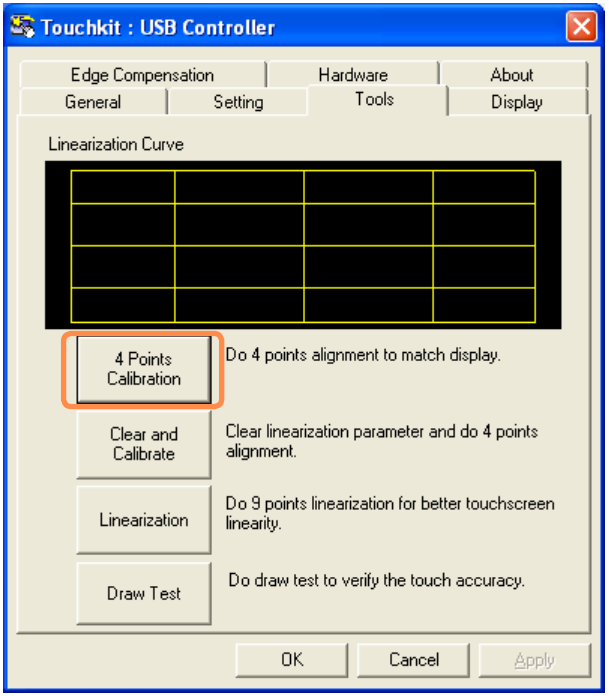
Mouse	Using the Stylus Pen		Function
Single-click	**Single-tap**		Single-tap with the pen to select an item.
Double-click	**Double-tap**		Double-tap with the pen to run an item.
Right-click	**Press and Hold**		Press and hold for more than 3 seconds with the pen to display the Pop-up menu.
Drag	**Drag**		Tap an item and drag it with the pen to move the item.

Calibrating the Screen

When using the Stylus Pen for the first time or the pointing position of the Stylus Pen is incorrect, you can correct the pointing position using the **TouchKit** program.

1 Select **Start > All Programs > Touchkit > Configure Utility**.

2 In the **Tools** tab, select **4 Points Calibration**.



Enhancing the Accuracy

If greater precision is required, you can correct the pointing position by using **9-Points** or **25-Points** Calibration.

To setup 9-Point or 25 Point Calibration, follow these steps:

1. Before beginning with the Calibration, click on the **Settings** tab in the TouchKit.
2. In the **Linearization Style** item in the **Settings** tab, select **9-Points** or **25-Points** and then press the **Apply** button.
3. To calibrate, click the Tools tab.
4. Select **Linearization** from the **Tools** tab. The higher the number, the more precise the correction.

3 Press and hold the **X-symbol** displayed on the screen until it stops blinking. The **X-symbol** appears repeatedly according to the selected number of points.

4 If the **Calibration Result** window appears, click the **OK** button. The pointing position of the Stylus Pen is corrected.

Entering Text

You can enter characters using the Keypad or a USB keyboard(Optional).

This product is supplied with Windows XP Home Edition, therefore handwriting recognition, is not supported in this product.

For example, the procedures to enter text in the Notepad will be described below.

Using the Keypad

Using the keypad you can enter characters and numbers directly.
The Keypad image may differ from the actual Keypad.

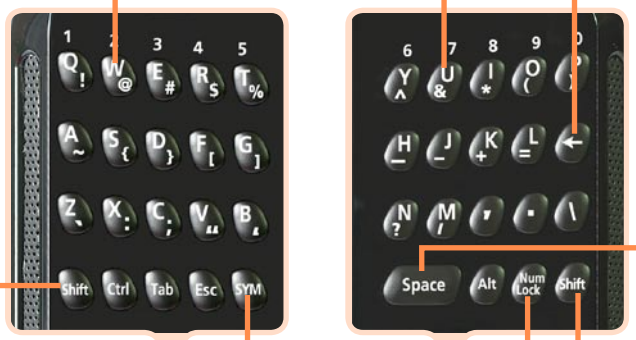
Character/Numeric Key
You can directly enter characters/numbers to the screen by pressing this key.

Shift
To switch between capital and small letters, press the key while holding the Shift key down.

SYM
You can enter special key it is below the Character key by pressing this key.

Entering special keys
Press the **SYM** key once and press the corresponding key. The special key below the corresponding key is entered.

To enter special keys successively, repeat the above operation.



←
This key performs the role of the Backspace key on a keyboard. If you press this key, you can erase the last characters on the screen.

Space
This key performs the role of the space key.

Shift

Num Lock
If you press the Num Lock key and then a first line key, a digit is entered.

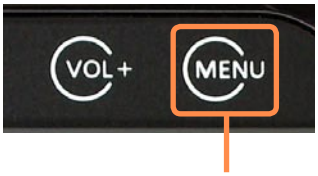
If you press the Num Lock key again, the numeric key mode is canceled and you can enter characters.

Using the Buttons

The functions of the MENU button, User-Defined button, Mouse/Joystick, and mouse buttons are described below.

The MENU Button

When the **MENU** button is pressed, the **MENU program** appears.



MENU button
(For models with the Touch Sensor button only)

MENU button
(For models without the Touch Sensor button only)

The MENU Program provides shortcuts to frequently used functions on the computer. You can easily change the settings.

Press the MENU button again or press a point on the screen to hide the MENU Program.

MENU Program

MENU Items	Function
LCD / CRT	You can select the display device when an external monitor is connected. Whenever you press the button to the right of the LCD/CRT button, the computer screen is output to **LCD > CRT > LCD+CRT Clone > LCD+CRT Dual View** mode, in this sequence. Displaying the computer screen on an external monitor only, may not be supported with the **MENU** button. In this case, to display the screen on an external monitor, try using the Intel program. p.69
Brightness ▽ / △	Whenever this item is pressed, the LCD brightness is increased(decreased) by one step.
Backlit On / Off	If you press Off, the LCD screen is turned off. To turn it on again, press down on the LCD screen once.
Rotation	Whenever you press this button, the screen rotates clockwise or counterclockwise by 90 degrees. When rotating the screen, a part of the screen image may not be displayed in some software programs.
Sound On / Off	Press this item to turn the volume on or off.
Etiquette Mode On / Off	Turns Etiquette mode on or off. Use Etiquette mode when you need a quiet working environment. Since Etiquette Mode makes the CPU run at its slowest, the program operating speed may slow down and the computer may overheat due to the slow fan speed.
Wireless LAN On / Off	Press this item to turn the Wireless LAN on or off.
Battery	Shows the remaining battery charge.

Mouse/Joystick

The Mouse/Joystick has the functions of a mouse, joystick and INTERNET button.

Mouse Function

Press the **MOUSE** part at the top of the **Mouse/Joystick**. If the **Mouse** ( ) icon is lit, you can use the **Mouse/Joystick** as a mouse.

▶ Moving the Cursor

Place your left hand thumb on the Mouse/Joystick, and move it in the direction you want to move the cursor.

▶ Click / Double-Click

When the **Mouse** ( ) icon is lit, press the **L button** ( ) once for the click (select) operation and press the button twice for the double-click operation.

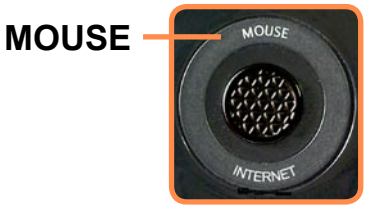
▶ Right-Click

When the **Mouse** ( ) icon is lit, press the **R button** ( ) once for the right-click operation.

Joystick Function

Press the **MOUSE** button above the **Mouse/Joystick**.

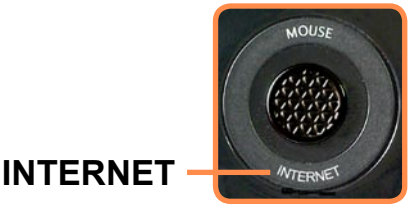
If the **Joystick** ( ) icon is lit, you can use the **Mouse/Joystick** as a joystick.



INTERNET Button Function

If you press the **INTERNET** button below the **Mouse/Joystick**, you can connect to the Internet.

The **INTERNET** button function may not be provided depending on your computer model.



User-Defined Button

A **User-Defined Button** refers to a button which can be configured so that pressing it launches a frequently used program or plays the role of pressing a particular key combination.

It is convenient to set your frequently-used programs or key combinations as groups.

User-Defined Button

The button shapes and program screens may differ from actual product.

Default Group Setting

The Internet, Explorer and Presentation are provided as a basic group and the Internet group is set by default when purchasing the computer. However, you cannot change the settings for the basic group.

Internet Group Setting Status

Button	Function	Description
▲	**MouseScrollUP**	Scrolls up in a window as a mouse scroll.
►	**Forward**	Moves forward in Internet or Windows Explorer to display the next page.
▼	**MouseScrollDown**	Scrolls down in a window as with a mouse scroll.
◄	**Back**	Moves back in Internet or Windows Explorer to display the previous page.

Configuring Additional Groups

Below are procedures to add an additional group to the default group and for setting up functions for the four buttons.

As an example, the procedures to add a new group named “Test”, configure the ▲ button to a particular key combination, and configure the ► button to a program are described below.

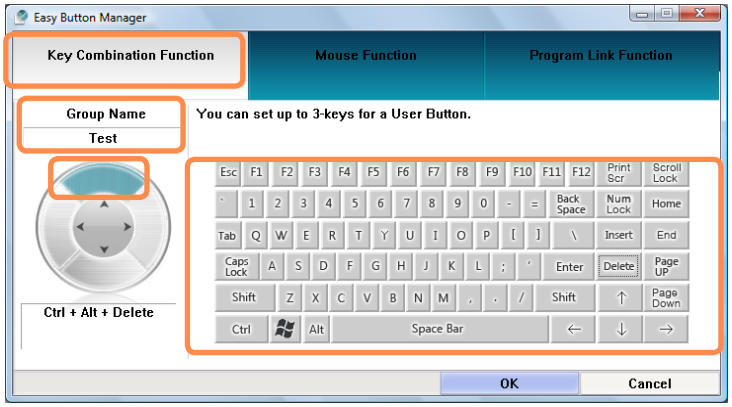
1 Double-click the **Easy Button Manager** icon ( ) on the Desktop.

Alternatively, press the **UDF** ( ) Touch Sensor button if there are Touch Sensor buttons.

2 In the Main screen, click **Add**.

3 Enter a name in the **Group Name** field by clicking the keys on the on-screen keyboard.

For example, enter “**Test**”.



For information on how to use the Keypad, refer to the descriptions for Entering Text. p.56

4 After selecting the ▲ button, select the **Key Combination Function**.

Key Combination Function: You can set a User Button to a particular key combination.

Mouse Function: You can set a User Button to a mouse operation.

Program Link Function: You can set a User Button to launch a frequently used program.

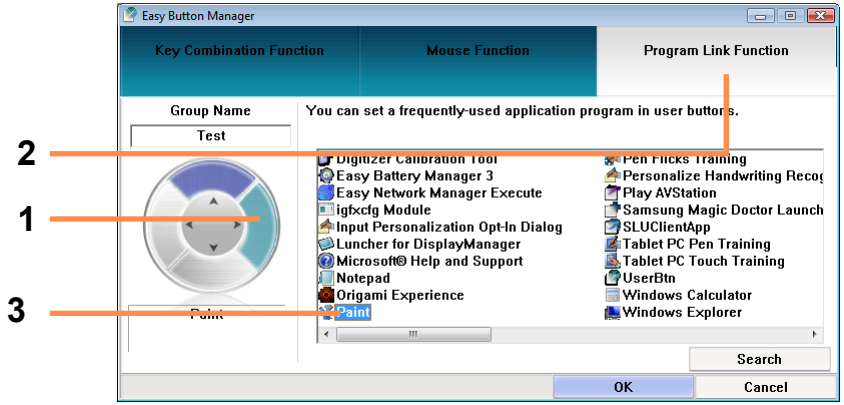
5 Press a required key combination.

For example, if you have pressed the **Ctrl, Alt, Delete** key in order, "**Ctrl + Alt + Delete**" is displayed on the left side of the screen.

6 To continue with setting up the ► button, select the ► button and click the **Program Link Function**.

Select the program you want and click the **OK** button.

If the program you want is not in the list, click the **Search** button and select a program.



7 You can view the settings for each button in the Main screen.

Select a group from the Group Name and click the **OK** button. The user buttons perform the roles set in the selected group.

■ **To use the functions of the added group or another group**

Launch Easy Button Manager, select a group from the **Group Name** of the main screen and click **OK**.

■ **To delete or modify the group list**

Launch Easy Button Manager, select a group from the **Group Name** of the main screen and click **Delete** or **Modify**.

Multi Card Slot

You can use SD and MMC cards using the multi card slot.

You can use storage cards as removable disks and use them to conveniently exchange data with digital devices such as digital cameras, digital camcorders, MP3 players, etc.

- A multi card slot is optional and is provided for some models only.
- Users have to purchase storage cards according to their needs.
- While the multi card slot enables users to use memory cards as data storage, it does not support a copyright protection function.
- Remove and keep the cards in a separate location when carrying the computer as they may become lost while moving.

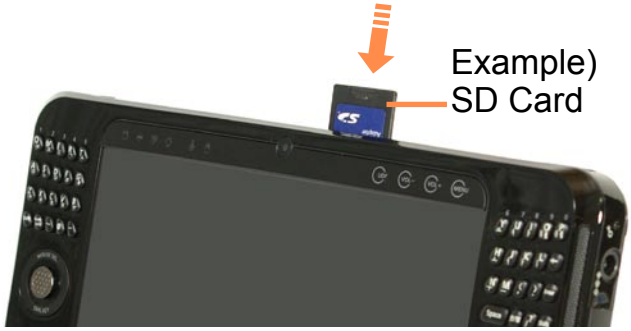
Supported Card Types

SD Card

MMC Card

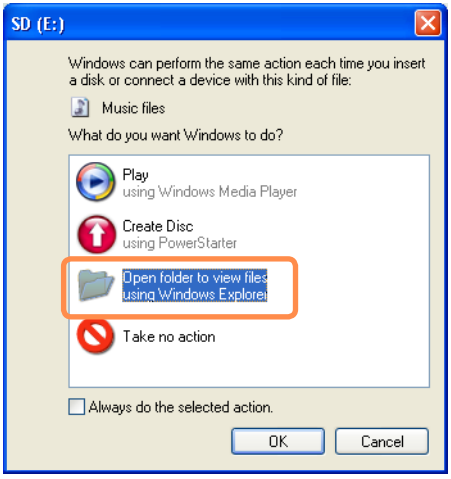
Using a Memory Card

1 Insert the memory card into the multi card slot according to the direction printed on the slot.

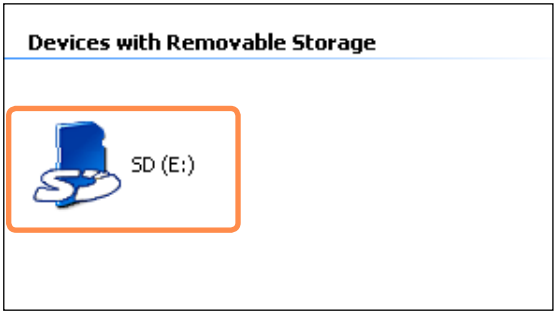


2 The card drive appears. Click **Open folder to view files**.

If the window does not appear, click **Start > My Computer**.


SD (E:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Music files
What do you want Windows to do?
Play
using Windows Media Player
Create Disc
using PowerStarter
Open folder to view files
using Windows Explorer
Take no action
Always do the selected action.
OK
Cancel

3 Double-click the corresponding drive to save, move or delete data.



You cannot use an unformatted card. If the card is not formatted, format the card first, referring to the 'Formattung a Card' section. p.66

To use a Mini SD or RS-MMC card

These cards cannot be inserted into the slot because they are too small.

You can use the cards by inserting the cards into the corresponding card adapter and then inserting the adapter into the multi card slot.

However, depending on the adapter's body material, some RS-MMC cards may not be recognized properly.

Samsung recommend that you check the card is recognized correctly prior to purchasing.

Removing a Card

1 Push the end of the card slightly.

2 The card clicks and pops out. Remove the card from the slot.

Formatting a Card

You have to format a card before using it.

> If you format a card, all the data saved on the card will be removed. Make sure to backup data before formatting a card if data has been saved to the card.

1 Select **Start > My Computer**.

2 Right-click over the card drive and select **Format** from the pop-up menu.

3 If you click **Start**, formatting will begin.

> To use a card to exchange data with a digital device such as a digital camera, formatting the card in the digital device is recommended.
>
> Some digital devices may fail to recognize a card formatted on a computer. In this case, you have to format the card in the digital device.

Connecting a Monitor

Using an external monitor, you can watch a movie on wide screen or give a presentation. The procedures to view pictures on an external monitor are described below.

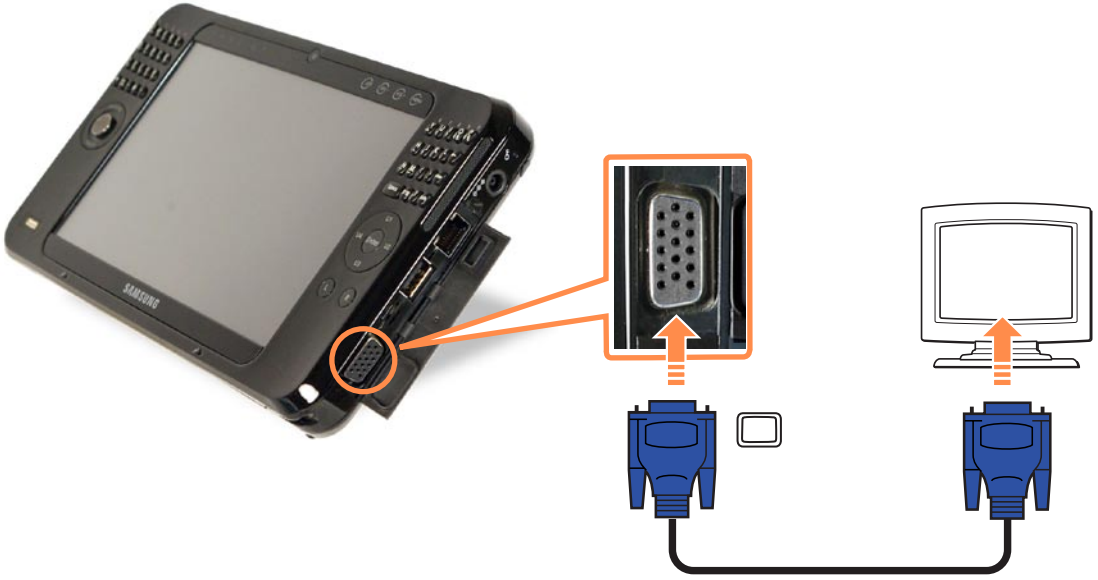
When using an **external monitor** or **playing a game**, using the **Mouse/Joystick** or an **external mouse** is convenient.

You have to purchase the monitor connection cable additionally.

The monitor port color may differ from the actual one.

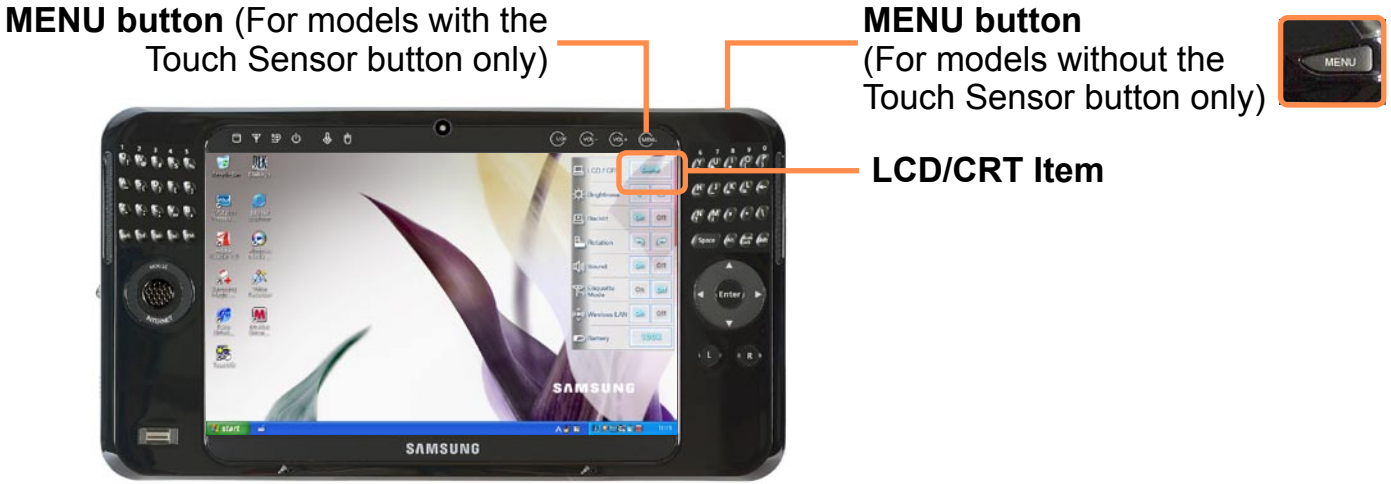
Connecting a Monitor

Open the cover on the right side and connect a monitor to the **Monitor Port**.



Method 1. Configuring with the MENU Button

1 Connect the monitor and touch the **MENU** button to launch the MENU program.


MENU button (For models with the Touch Sensor button only)
MENU button (For models without the Touch Sensor button only)
MENU
LCD/CRT Item
SAMSUNG
SAMSUNG

2 Press the button to the right of the LCD/CRT button to switch to a different mode.

Whenever you press the button to the right of the LCD/CRT button, the computer screen is output to **LCD > CRT > LCD+CRT Clone > LCD+CRT Dual View** mode, in this sequence.

- **LCD**: You can view the computer screen through the LCD only.
- **CRT**: You can view the computer screen on an external monitor.
- **LCD+CRT Clone**: When selecting this mode, you can view the same screen on both the LCD and the external monitor.
- **LCD+CRT Dual View**: When selecting this mode, you can view a screen spanning over the LCD and the external monitor, and you can set different resolutions for each display device.

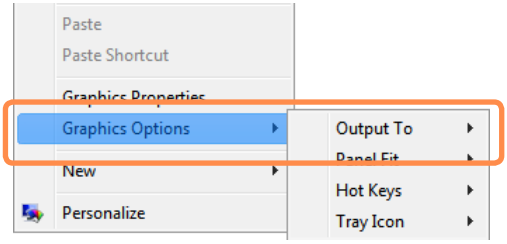
Displaying the computer screen on an external monitor only, may not be supported with the **MENU** button. In this case, to display the screen on an external monitor, try using the Intel program. p.69

Method 2. Configuring with the Intel Program

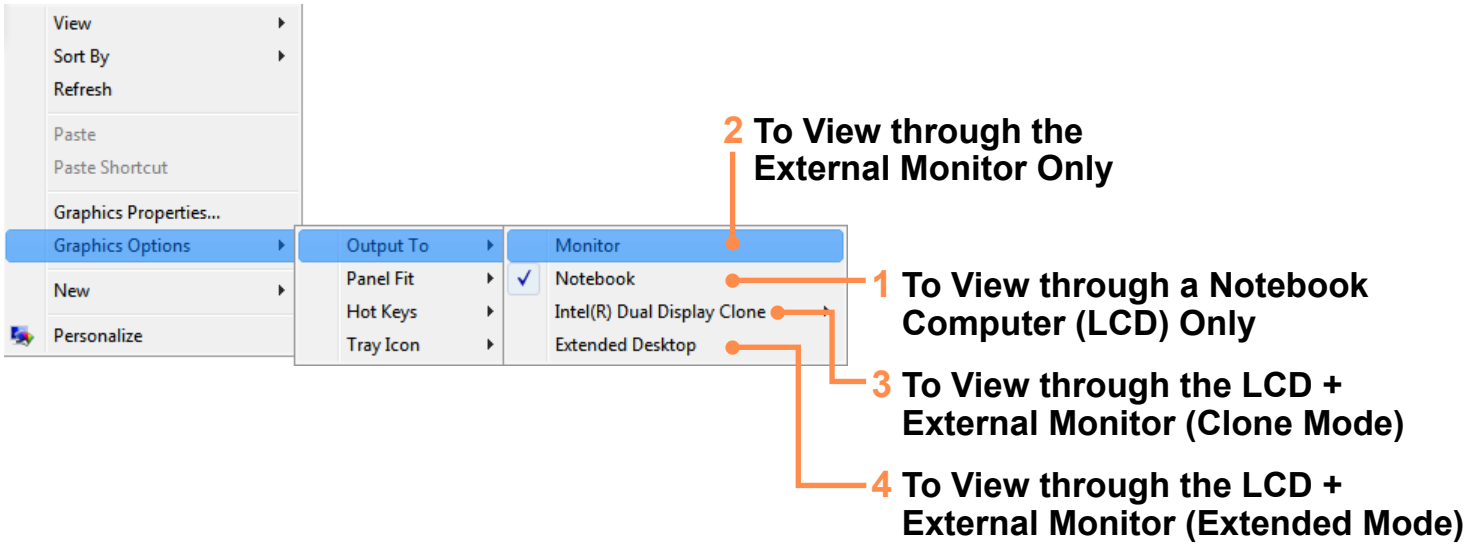
* The terms and the screen figures in the manual may differ from actual product.

1 Connect the monitor and click the **Intel(R) Graphics Media Accelerator Driver for Mobile** icon ( ) on the Taskbar. Or right-click on the desktop. The pop-up menu appears.

2 Select **Graphics Options** and **Output To** from the pop-up menu.



3 Select a display mode from among the available **Display Modes** 1~4 in the **Graphics Options** menu.



	Display Device		Display Mode
1	**When carrying it**		Select **Notebook**.
2	**When playing a game**		Select **Monitor**. When playing a game, using only the external monitor is better.
3	**When giving a presentation** **(Clone Mode)**		Select the **Intel(R) Dual Display Clone**. When selecting this mode, you can view the same screen on both the LCD and the external monitor.
4	**When giving a presentation** **(Extended Mode: Dual View)**		Select the **Extended Desktop**. When selecting this mode, you can view a screen spanning over the LCD and the external monitor, and you can set different resolutions for each display device.

Adjusting the Volume

You can control the volume with the Volume Control button or Volume Control program.

Using the Volume Control with the Volume Control Button

- **For models with the Touch Sensor buttons only**

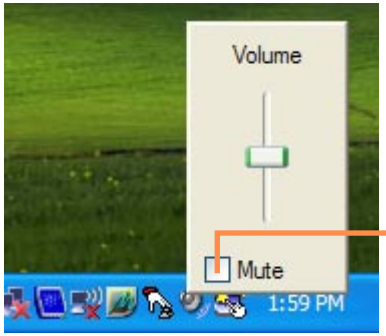
  Press the **VOL**-button (VOL-) with your finger to turn the volume down. Press the **VOL**+button (VOL+) to turn the volume up.

- **For models without the Touch Sensor buttons only**

  Press the **User Defined buttons** (◀/▶) while holding down the **INTERNET button** to adjust the volume.

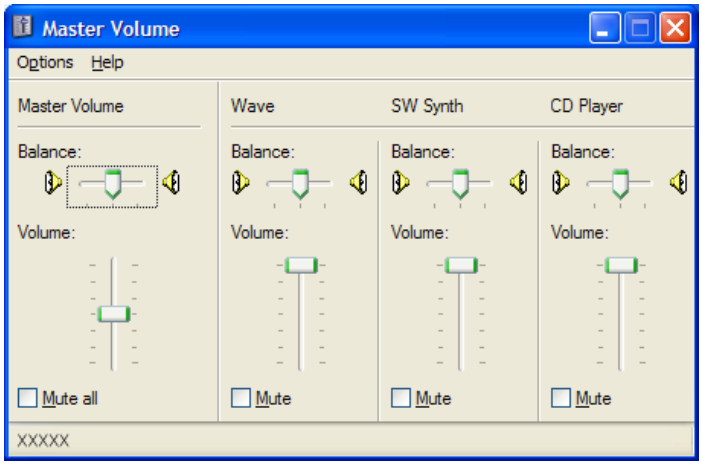
Adjusting the Volume using the Volume Adjustment Program

Click the **Volume** icon ( ) on the taskbar and slide the volume control bar to adjust the volume.



Mute

Alternatively, double-click on the **Volume** icon ( ) and adjust the master volume control.

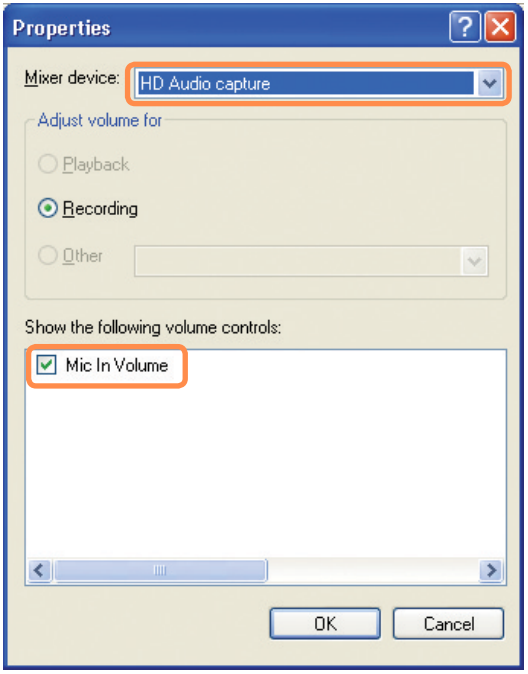


Using the Sound Recorder

The procedures to record sound using the Windows Recorder are described below.

1. Connect a microphone to the microphone jack.
2. Click **Start > Control Panel > Sounds, Speech, and Audio Devices > Sounds and Audio Devices**.
3. Click **Advanced** from Volume and then, click **Options > Properties**.

4 Select **Realtek HD Audio input** from the mixer device to select **Recording** from **Adjust Volume for**.



5 Select **Recording Control** and **Mic in Volume** from **Show the following volume controls** and click **OK**.

6 When **Recording Control** window appears, make sure all the Mute boxes are unchecked. Increase the **recording** volume to increase the recording sensitivity and close the window.

7 Click **Start > All Programs > Accessories >Entertainment > Sound Recorder**.

8 Click the **Record** button to perform recording.

The default recording duration of Windows is 60 seconds. Download a dedicated recording program from the Internet to record audio data for a long time.

Using SRS

The SRS function enables you to experience more stereophonic sound by expanding the space-perception through the stereo speaker.

This function is available for specific models only.

1 Click **Start > Control Panel > Sound, Speech and Audio Devices > SRS Control Panel**.

2 Check the **Enable** checkbox and select a mode. Then you can listen to sound through the selected **SRS** effect.

- **WOW XT (Music)**: Select to listen to music.
- **TruSurround XT (Movie/Video)**: Select to watch a movie.

The SRS function supports the computer's built-in speaker and headphones only.

Chapter 3.

Using Microsoft Windows XP

About Microsoft Windows XP 75

Windows XP Screen Layout 77

Control Panel 81

The screen shots used in this chapter may differ from actual screens depending on the Windows XP version and model.

About Microsoft Windows XP

Microsoft Windows XP (hereinafter referred to as Windows) is the basic operating system for computers.

You should know how to use Windows in order to use your computer properly. Use **Tour Windows XP** as well as **Help and Support** to learn about how to use Windows.

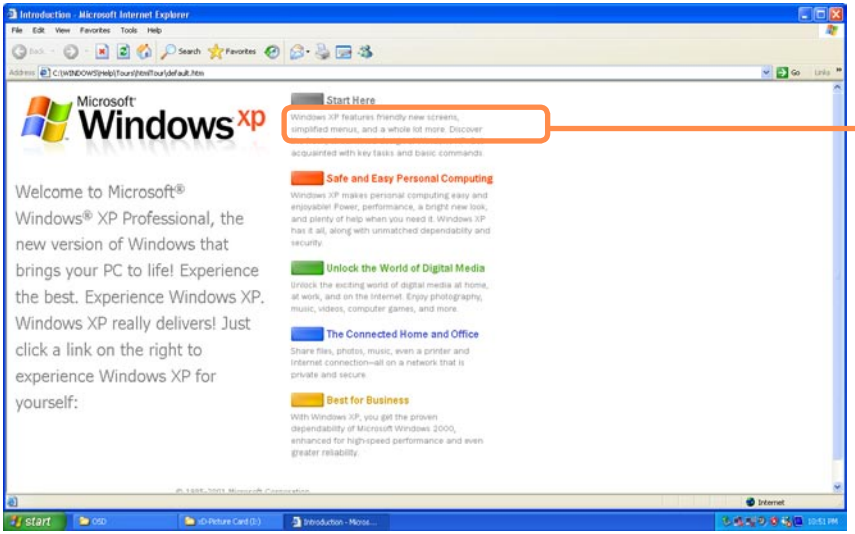
Tour Windows XP

Tour Windows XP introduces the basic features and characteristics of Windows.

Click **Start > Tour Windows XP.**
Or, click **Start > All Programs > Accessories > Tour Windows XP.**

Click the title at the right to view the description of the Windows features.

The screen layout may differ depending on the computer model and the operating system.

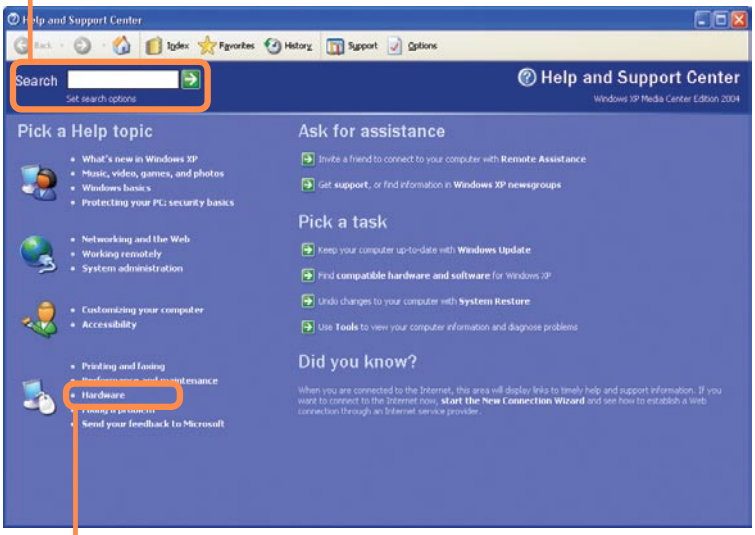

Introduction - Microsoft Internet Explorer
Microsoft Windows XP
Welcome to Microsoft® Windows® XP Professional, the new version of Windows that brings your PC to life! Experience the best. Experience Windows XP. Windows XP really delivers! Just click a link on the right to experience Windows XP for yourself:
Start Here
Windows XP features friendly new screens, simplified menus, and a whole lot more. Discover
Safe and Easy Personal Computing
Unlock the World of Digital Media
The Connected Home and Office
Best for Business
start
Click the title.

Help and Support

Help and Support allows you to view the features and usage of Windows. Also, it allows you to search the information you want by entering a search keyword.

Click **Start > Help and Support.**

Search: Enter a search keyword to view the Help.


Help and Support Center
Index
Favorites
History
Support
Options
Search
Set search options
Help and Support Center
Windows XP Media Center Edition 2004
Pick a Help topic
What's new in Windows XP
Music, video, games, and photos
Windows basics
Protecting your PC: security basics
Networking and the Web
Working remotely
System administration
Customizing your computer
Accessibility
Printing and faxing
Hardware
Send your feedback to Microsoft
Ask for assistance
Invite a friend to connect to your computer with Remote Assistance
Get support, or find information in Windows XP newsgroups
Pick a task
Keep your computer up-to-date with Windows Update
Find compatible hardware and software for Windows XP
Undo changes to your computer with System Restore
Use Tools to view your computer information and diagnose problems
Did you know?

Fixing a problem: If a problem occurs, you can get help.

How to Change Desktop (Background Picture)

What's new in Windows XP > Windows XP articles : Walkthrough ways to use your PC. After clicking **Walkthrough : Personalize your PC**, you can view the way to change the background picture on **Customize Desktop**.

Windows XP Screen Layout

Desktop

If you turn on the computer, the Desktop will appear. The Desktop is the work space (screen) of a computer and is configured as follows:

The screen layout may differ depending on the computer model and the operating system.

Shortcut Icons
You can launch programs by clicking the shortcut icons on the Desktop.

Start Menu
The menu from which you can launch programs.

Recycle Bin
You can drop useless files and folders here.

Language Bar
Switches text input language.

Start button
Press the start button. The Start menu appears.

Taskbar
Currently running programs are displayed here.

System Tray with Clock
Shows some running program icons. Icons not being used are hidden. If you click the arrow mark on the left, you can view hidden icons.

Start Menu

The menu from which you can launch programs.

Click **Start**. The Start menu appears.
Alternatively, press the **Windows** key (⊞) on the keyboard.

My Computer		Displays the contents of the hard disk, the CD-ROM drive, the network drive(s), and floppy disks. It can also be used to search and open files and folders.
Control Panel		Enables users to configure settings on the computer.
Help and Support		Provides on-line help, information on Windows and troubleshooting.
Search		Enables users to search for information in files or the Internet.
Run		Run programs or documents.

Window

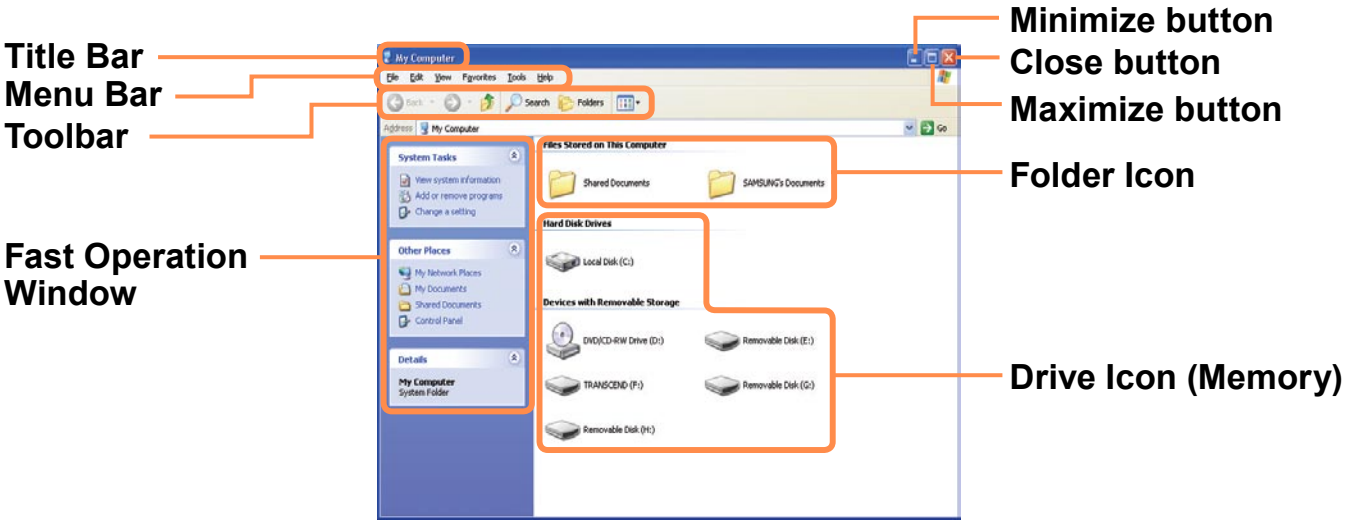
A window is a basic foundation for operating your computer. For instance, a window of your computer is configured as follows:

Click **Start > My Computer.**

Displayed menus and names may be varied.

Double-click the **Local Disk**, which is a hard disk drive, to view the folders and files saved in your computer.

If any folder or file is not shown, click **Show Folder Contents**.



What is a Drive?
A drive is a storage device that can read or write data such as folders and files.

What is a Folder?
A folder is just like a cabinet that keeps files or folders. You can keep files or folders of similar kinds in a folder.

What is a File?
A file is the minimum unit of materials created by using a program and is also called data.

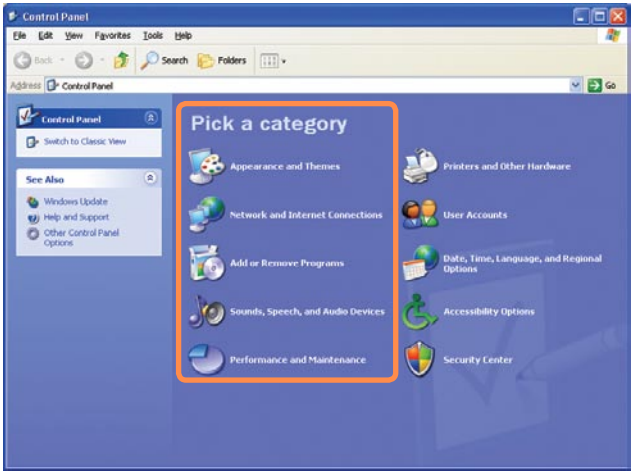
How to View the Entire Drive Structure
Click the folder icon from the Toolbar to view the drive structure.
Click the icon again to return to the Fast Operation window.

Control Panel

The Control Panel has a group of tools that enable to configure the Windows-related settings.

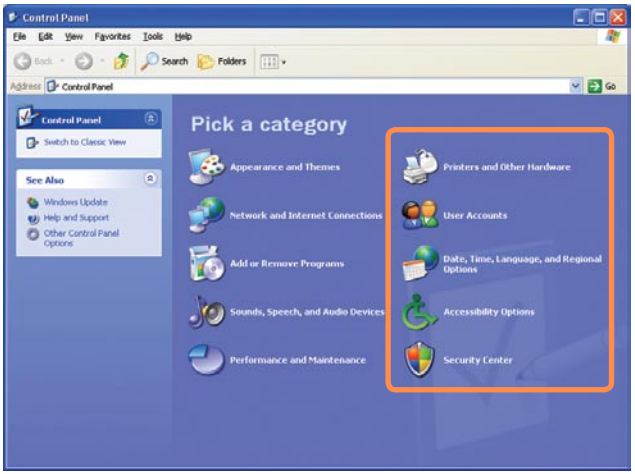
Running Control Panel

Click **Start > Control Panel.**



Appearance and Themes		Change the appearance of desktop items, apply a theme or screen saver to your computer, or customize the Start menu and Taskbar.
Network and Internet Connections		Connect to the Internet, create a home or small office network, configure network settings to work from home, or change modem, phone, and Internet settings.
Add or Remove Programs		Install or remove programs and Windows components.
Sounds, Speech, and Audio Devices		Change the entire sound scheme or individual sounds made by your computer, or configures the settings for your speakers and recording devices.
Performance and Maintenance		Schedule regular maintenance checks, increase space on your hard disk, or configure energy-saving settings.

Click **Start > Control Panel.**



Printers and Other Hardware		Change the settings for your printer, keyboard, mouse, camera, and other hardware.
User Accounts		Change user account settings, passwords, and pictures.
Date, Time, Language, and Regional Options		Change the date, time, and time zone for your computer, the language to use, and the way numbers, currencies, dates, and times are displayed.
Accessibility Options		Adjust your computer settings for vision, hearing, and mobility.
Security Center		View your current security status and access important settings to help protect your PC.

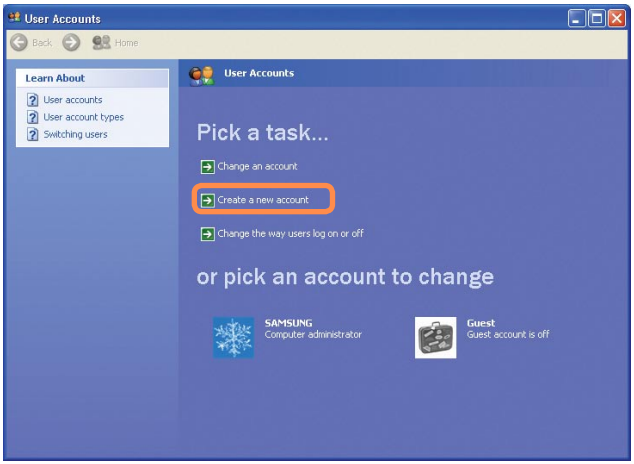
User Account

Windows XP allows to set multiple users with accounts.
This section describes how to add a user account and to switch a it.

How to Add a User Account

1 Click **Start > Control Panel.**

2 Click **User Account** and **Create a new Account** in sequence.

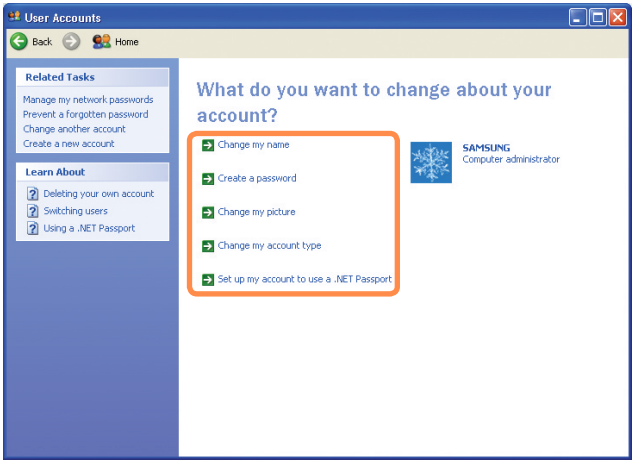


3 Enter your name and click **Next**.

4 Select an account type and click the **Create Account** button. Then, check the created account from the User Account window.

5 Click the target account and change the user account information.

You can change the account name, password, account type, and picture.



To Delete User Account

1 Click **Start > Control Panel > User Account.**

2 Select the user account to be deleted and click **Delete Account.**

The administrator account cannot be deleted. It can only be renamed or disabled.

How to Switch a User

1 Click **Start > Logoff.**

2 Click **Switch User**.

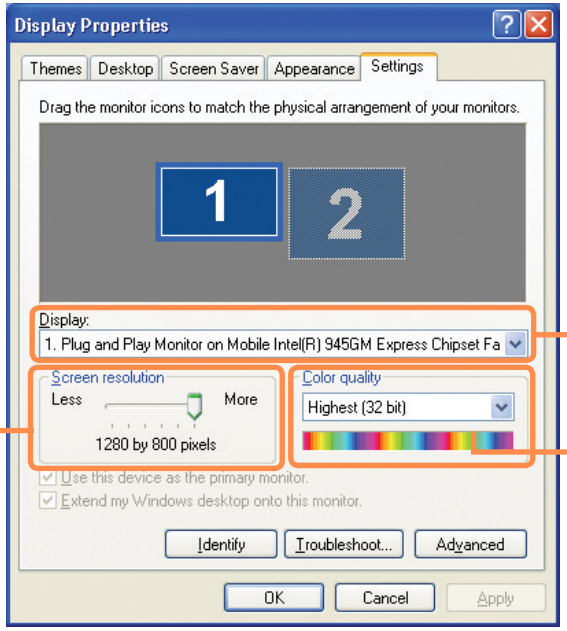
3 Click the user name to be switched from the Welcome screen. Then you can log on with a new user name.

Changing Resolution and Color

A resolution is the number of pixels displayed on the screen. If you set the resolution to a higher value, items on the screen will be displayed smaller and the screen looks wider than the pervious. As color quality gets higher, more colors can be represented.

1 Click **Start > Control Panel > Appearance and Themes > Change the screen resolution.**

2 Click **Settings** and change the resolution and color quality. Then, click **OK**.



Move the slider bar to set the resolution.

You can select a graphic chip set.

Click the pull-down menu button to select the number of colors you want.

It is recommended to set the resolution and color quality depending on the LCD type of your computer as the following:

LCD Type	Resolution	Color Quality
7” WSVGA	1024 x 600	Highest (32-bit)

Chapter 4.
Using the Network

Wired Network 87
Wireless Network 89
Using the Samsung Network Manager 93
Bluetooth 98

Wired Network

A wired network is a network environment used for a company network or broadband internet connection at home.

You can also configure the network settings using the Samsung Network Manager.
p.93

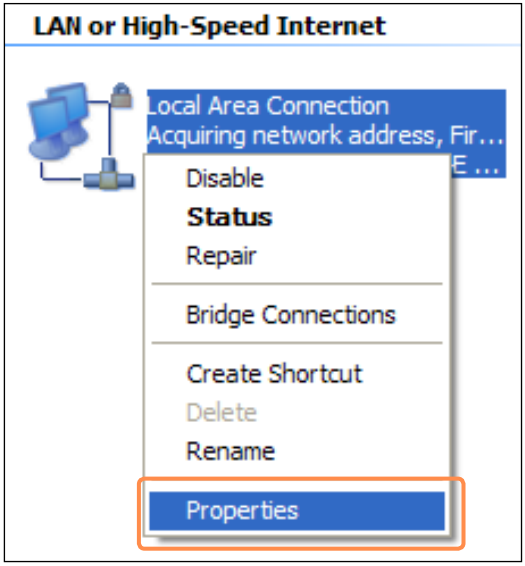
1 Connect a LAN cable to the computer's **LAN port**.

2 Click **Start > Control Panel**.

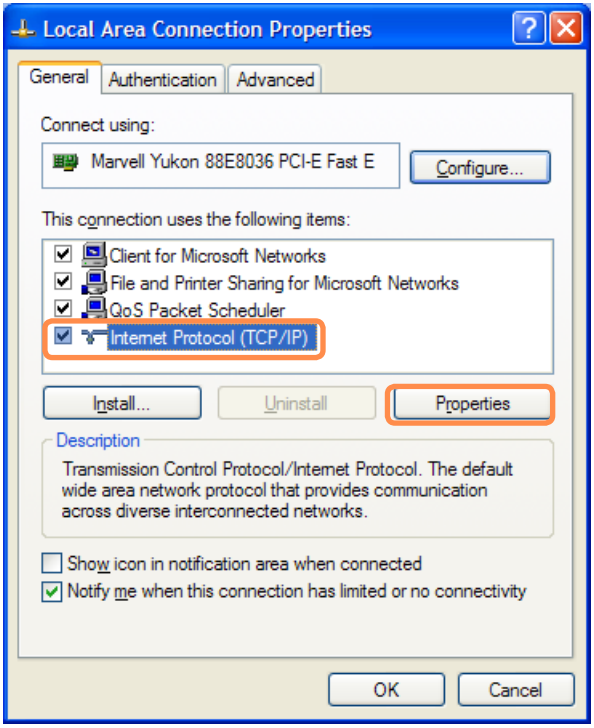
3 Click **Network and Internet Connections** in the [Control Panel] window.

4 Click **Network Connections** in the [Network and Internet Connections] window.

5 Right-click the **Local Area Connection** icon and click **Properties**.



6 On the **General** tab, select “Internet Protocol(TCP/IP)” and click **Properties**.



7 **To use DHCP:**

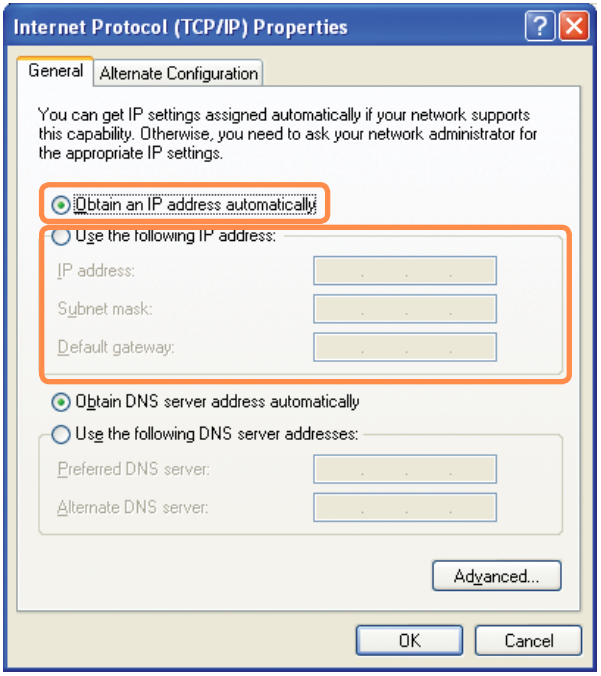
On the **General** tab, select “Obtain an IP address automatically” and “Obtain DNS server address automatically”.
Click **OK**.

To use a static IP:

On the **General** tab, select “Use the following IP address” and fill in the IP address, Subnet mask, Default gateway, Preferred DNS server, and Alternative DNS server fields.
Click **OK**.

To use both DHCP and static IP simultaneously:

On the **Alternate Configuration** tab, click **User configured** and fill in the fields.
Click **OK**.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Wireless Network

A wireless network (Wireless LAN) environment is a network environment that enables communicating between multiple computers at home or a small-size office through wireless LAN devices.

- The descriptions below are for computer models with a Wireless LAN card or device. You can also configure the wireless network settings using the Samsung Network Manager. p.93

  A Wireless LAN device is optional. To view the installed wireless LAN card, click **Start > Control Panel > Performance and Maintenance > System > Hardware tab > Device Manager > Network Adapter** and click the + symbol.
- The figures in this manual may differ from the actual product depending on your wireless LAN device model.
- To use the wireless LAN, you have to turn the wireless LAN on first. To turn it on, click the **MENU** button and set the **Wireless LAN** item to **On**. If the wireless LAN is turned on, the **Wireless LAN LED** is lit.

Wireless LAN Connections

Wireless network connections can be classified into 3 categories and this manual describes the connection procedures for connecting through an **Access Point (AP)**.

Access Point (AP)

You can connect to the Internet or another computer on the network through an AP.

What is an Access Point (AP)?
An AP is a network device that bridges wired and wireless LANs, and corresponds to a wireless hub in a wired network. You can connect multiple wireless LAN installed computers to an AP.

Computer-to-computer (ad hoc) network

The small office network interconnects computers where wireless LAN is enabled wirelessly and is called Peer-to-Peer (or Ad HOC). This method enables the configuration of a small office network in one computer.
Then, another computer is connected to the computer wirelessly for communications.
For more information on how to establish connections, see the information from **Start > Help and Support > Networking and Web**.

When you use Ad-Hoc, you have to change the **McAfee** Firewall settings. p.187

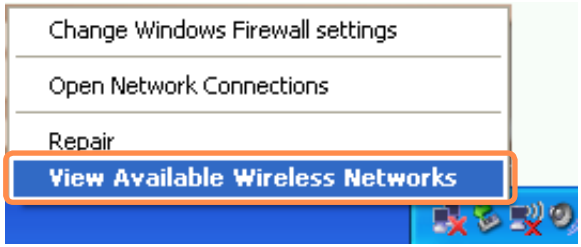
Connecting to a Wireless LAN

This section describes how to connect to an AP. You can access the network when you are connected to an AP.

For more detailed information, about your network, such as the network key (encryption key), ask your network administrator.

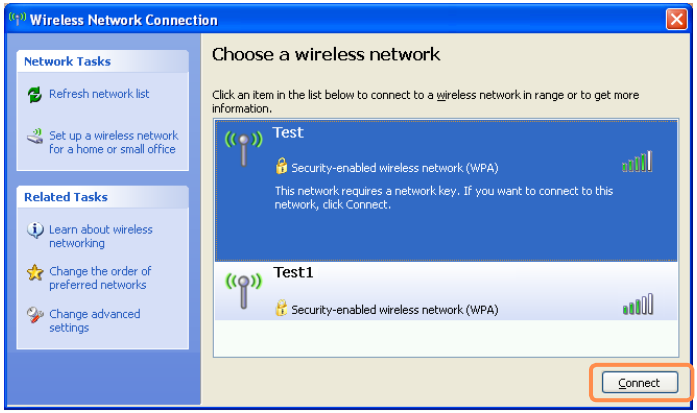
To connect to an AP, follow these steps:

1 Right-click on the **Wireless Network Connections** ( ) icon on the taskbar, and select **View Available Wireless Networks**.



2 Select an AP (E.g. see the Test network diagram below) to connect to and click **Connect**.
If there is a configured network key for the AP, the Enter Network Key window appears.

Enter the **Network Key** and click the **Connect** button.

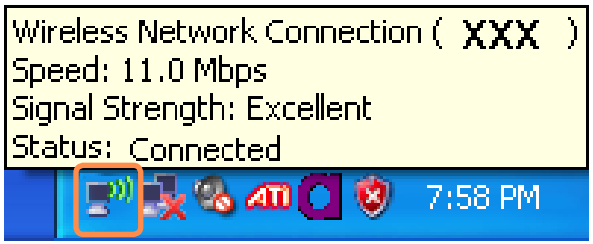

Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
Test
Security-enabled wireless network (WPA)
This network requires a network key. If you want to connect to this network, click Connect.
Test1
Security-enabled wireless network (WPA)
Connect

When a network key is defined for a selected AP, click on Link to display the warning message box. Then click on **Connect** again in the box.

3 From now on, when **Connected** is displayed in the right corner of the AP information window, you can access the network.

Checking the network connection status

Move the mouse pointer over the **Wireless Network Connection** ( ) icon on the taskbar to display the connection status.



Setting up a Wireless Network Setup Using the Wireless LAN Setup Program

The procedures to connect to an access point using a wireless LAN configuration program are described below. Since the wireless LAN configuration program is included on the **System Software Media**, the user has to install the program.

To use the system software media, the external USB ODD must be connected to the computer. The following descriptions presuppose that the external ODD is connected.

1 Insert the **System Software Media** into the CD drive and install the wireless LAN configuration program (ACU: Atheros Client Utility).

Select **System Software Media > User Installation > Wireless LAN Driver ReadMe**, click **ReadMe** and install the program according to the instructions.

2 Right-click on the **wireless LAN configuration program** ( ) on the taskbar and select **Open Atheros Client Utility**.
Alternatively, click **Start > All Programs > Atheros Client Utility > Atheros Client Utility**.

3 In the Profile Management tab, click **Scan** to search for available wireless networks.

4 Select the name of an access point (AP) to connect to from the network name (SSID) and then click **Activate**.

5 Enter a profile name to be used for the connection and select the security settings of the AP to be connected to in the **Security** tab.

The network authentication, encryption type and password of an access point are configured through the access point management program. For the security information, check the security settings of an access point or ask your wireless network administrator.

Refer to the following when configuring a WEP key.

- **Data encryption (WEP)**: The IEEE 802.11 WEP (Wired Equivalent Privacy) standard defines two levels of encryption, a 64-bit key (this is sometimes represented by 40bits) and a 128-bit key.

  When connecting to an Atheros access point, you can use the 152-bit key (32 hexadecimal digits or 16 ASCII characters).
- **Key index**: Select the current encryption key index used by the access point from between 1 to 4.
- **Using an encryption key**: Enter 5 (for 64-bit) or 13 (for 128-bit) alphanumeric characters (represented by 0-9, a-z, or A-Z).

6 Click **OK** and then **OK** again in the Profile Management window.

If the profile is created, the profile appears in the Profile Management tab list and the connection is established.

Using the Samsung Network Manager

The Samsung Network Manager is a program that helps configure the network settings.

The Samsung Network Manager provides the following features.

- **You can easily configure the network and printer settings.**
- **You can immediately use the network without having to define new network settings again after moving to another location.**
  By configuring the network settings (IP address, printer settings, etc.) for each location, you can immediately access the network without following the network setting procedures each time regardless of your location.
- **You can diagnose the network status.**

Network Settings

This section describes the procedures to connect to the Internet by setting up a network. The setting up procedures include procedures to add a printer to the network.

1 To use a wireless LAN, make sure it is on.

Press the **MENU** button and click the **Wireless LAN On** item to turn it on. When the wireless LAN is turned on, the **Wireless LAN LED** lights up.

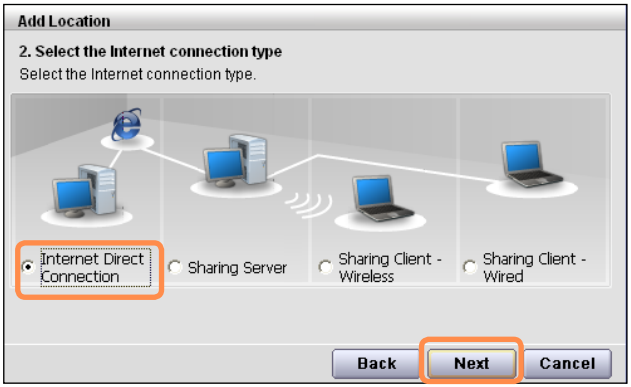
2 Run **Samsung Network Manager**.

Select **Start > All Programs > Samsung > Samsung Network Manager > Samsung Network Manager** or double click the **Samsung Network Manager** ( ) icon on the Desktop.

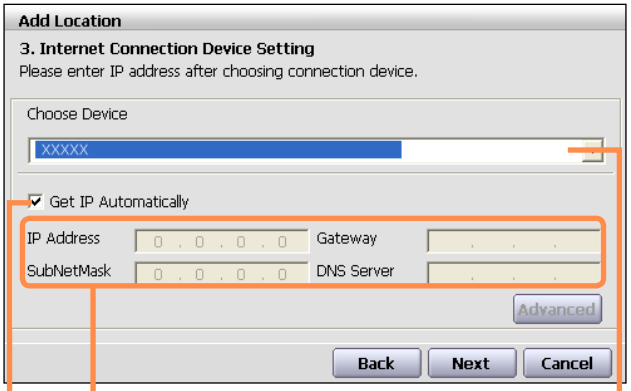
3 Click the **Add** button. You may need to rotate the screen to access the Add button.

4 Select a network location icon and enter the name of the location (e.g. Home). Click the **Next** button.

5 Select **Internet direct connection** and click the **Next** button.



6 Select the LAN device, configure the IP address, and click the **Next** button.



Select Device

Select a device to be connected to the Internet. Select either Wired LAN or Wireless LAN.

IP Settings

To use a static IP address, fill in the fields. For the IP address information, ask your network administrator.

Obtain an IP address automatically

Select DHCP to use this option (automatic IP setting).

7 When the Printer Setting window appears, click **Finish**.

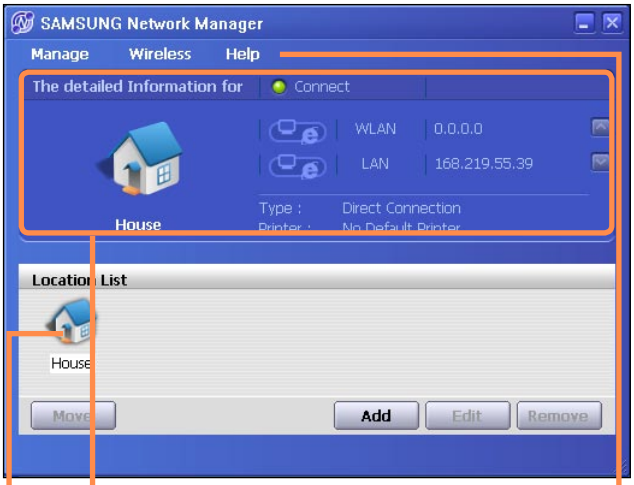
To add a printer, click **Add Printer**. The Add Printer Wizard appears. Set up the printer according to the instructions displayed on the screen. When the printer has been added, click the **Show printer** button, select the newly added printer and then click the **Finish** button.

To not add a printer, select **No Default Printer** and then click the **Finish** button.

When the network setting is complete, the **'Do you want to move to newly added location now?'** message appears. If you select **'Yes'**, the network settings for the added location are applied.

When the network settings for the added location are applied, the added place and the corresponding network connection information is displayed in **The detailed Information for window**.

When the network setting is complete, an icon for the added location is created within the Saved Locations window. Now you can use the Internet at that location or add a new network location.

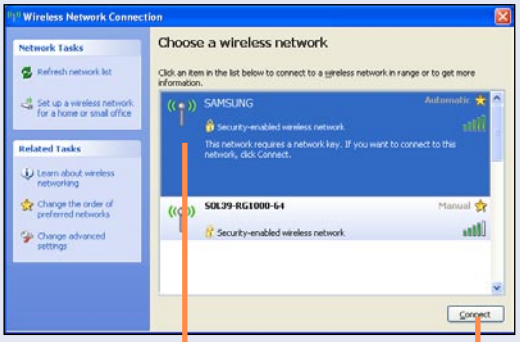


Wireless LAN AP Connection Procedures

To use a wireless LAN, first connect to a wireless LAN AP to access the network even when at a different location. Or moving location and then you can access the network even when connecting to a wireless LAN AP.

1. Right-click over the **Wireless Network Connection** ( ) icon on the Taskbar and click **View Available Wireless Networks**.
2. Click **Search AP** from the **Wireless** menu to search for wireless LAN APs.

Select an available wireless network (e.g. SAMSUNG) and click the **Connect** button. For information on available wireless LAN APs, ask your network administrator.



3. The network key (security key) input window appears.

- If a network key has been configured for the wireless LAN AP, enter the network key and click the **Connect** button. For the network key information, ask your network administrator.
- If no network key has been configured for the wireless LAN AP, click the **Connect** button without entering the network key.

4. When the computer is connected to the wireless LAN AP, the **Connected** message will appear on the Wireless Network icon in the Taskbar.

Using in Another Location

By configuring the network settings (IP address, printer setting, etc.) for each location, you can immediately access the network in one click, without performing the network setting procedures regardless of your location.

1 Click **Start > All Programs > Samsung > Samsung Network Manager > Samsung Network Manager** when connected to the Internet.

2 Select an icon that represents the corresponding location from the Saved Locations window and then click **Move**.

3 If the Internet connection is a wired LAN, you can immediately load the settings for the new location and the corresponding network connection information is displayed in the Current Location Information window.

If the Internet connection is a wireless LAN, you have to select an AP as follows.

❶ Right-click over the **Wireless Network Connections** ( ) icon on the Taskbar using the mouse and select **View Available Wireless Networks**.

❷ Select an available AP and click the **Connect** button.
If a network key is required, ask your network administrator for the key information.

Diagnosing the Network Status

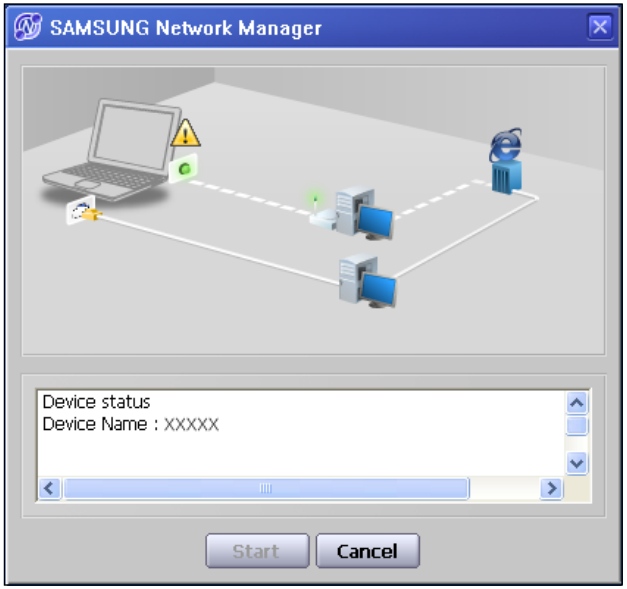
You can diagnose the network state and find solutions for why you cannot connect to the network.

1 Launch **Samsung Network Manager**.

2 Select **Management** and **Diagnose Status** from the menu.

3 The Network Connections window appears.
Click **Start** to start the network diagnosis.

4 When the diagnosis is complete, a device with a problem is marked by an exclamation mark icon with a description of the problem at the bottom of the window.



Bluetooth

Bluetooth is wireless communications technology that allows access to nearby devices such as another computer, cell phone, printer, keyboard, mouse, etc. without a cable connection. Using Bluetooth, you can exchange files, connect to the Internet, and construct a private network.

- The Bluetooth supporting function is only available between devices (a computer, cell phone, PDA, printer, etc.) and the connection may be restricted according to the profile of the corresponding device.
- The Bluetooth function is optional and may not be supported depending on your model.
- Compatibility to devices without the authentication or logo of Bluetooth is not guaranteed.

Bluetooth Function

File Transmission		You can exchange files between two Bluetooth devices. You can exchange files with another Bluetooth device such as another computer, cell phone, PDA, etc.
Network Access		You can connect to another Bluetooth-installed computer in the same way as an Ad-Hoc mode in wireless LAN and connect to the network via an AP or an Internet connection sharing server.
Network Access through a Phone Connection		You can connect to the network via a Bluetooth cell phone.
Data Sync (Synchronization)		You can synchronize PIMS data (Outlook E-mail address data) with Bluetooth devices such as a cell phone, PDA, another notebook computer, etc.
Electronic Business Card (Vcard) Exchange		You can exchange business cards with Bluetooth devices such as a cell phone, PDA, another notebook computer, etc.

Sound Output		You can output computer sound to another Bluetooth device or vice versa.
HID Connections		You can connect and use Bluetooth peripherals such as a keyboard, mouse, joystick, etc.

For more information about using the Bluetooth function, refer to the online help for the Bluetooth Device.

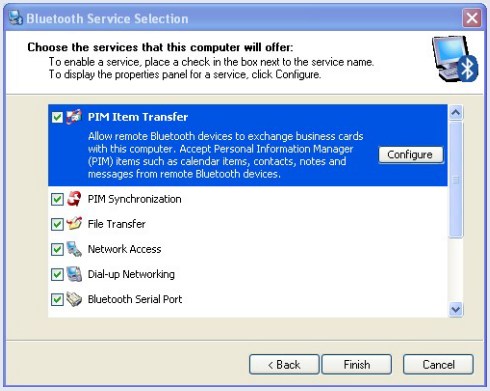
Bluetooth Software Setup

Bluetooth software is installed on computers supporting Bluetooth.
For first time use, set up the Bluetooth software as follows.

1. Double-click **My Bluetooth Places** icon ( ) on the Desktop.
2. Click the **Next** button to start setting up.

In the setting up steps, enter a device name to be displayed in t he Bluetooth Manager program. Enter a name in the **Computer Name** field and select **Laptop** for the **Computer Type** field.

Also, a step appears for selecting the services to be provided by your Bluetooth device for other Bluetooth devices. At this point, the program automatically detects available services and displays them as selected. It is recommended not to change the default selection.


Bluetooth Service Selection
Choose the services that this computer will offer:
To enable a service, place a check in the box next to the service name.
To display the properties panel for a service, click Configure.
PIM Item Transfer
Allow remote Bluetooth devices to exchange business cards with this computer. Accept Personal Information Manager (PIM) items such as calendar items, contacts, notes and messages from remote Bluetooth devices.
Configure
PIM Synchronization
File Transfer
Network Access
Dial-up Networking
Bluetooth Serial Port
< Back
Finish
Cancel

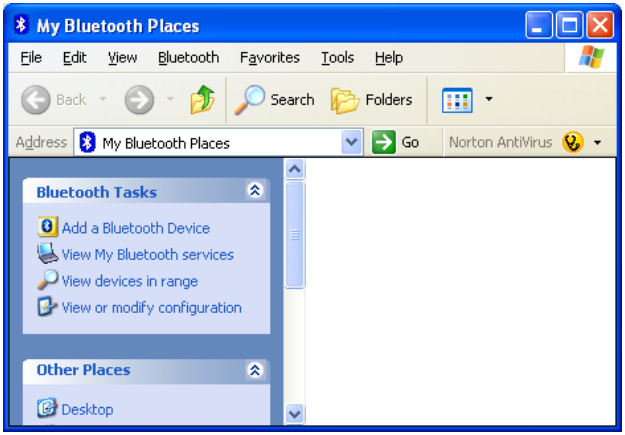
If you change the service settings, the driver necessary for the additionally selected services are installed.

At this point, a warning message may appear informing you that there is no Microsoft logo. Since it does not affect the operation, continue the installation.

3 If the driver installation is complete, the next step proceeds which searches for nearby Bluetooth devices. Since you do not have to search while setting up, click **Skip** and finish the settings.

Initial Bluetooth Configuration Wizard
Initial Bluetooth Configuration Wizard
This wizard can help you setup connections to Bluetooth computers, phones, headsets, etc.
To setup a connection now, put the other device in pairing mode, and then click Next.
(See the other device's documentation for assistance in preparing it to accept a connection).
To setup connections later, click Skip.
< Back
Next >
Skip
Cancel

4 If the settings are complete, the **My Bluetooth Environment** window appears.



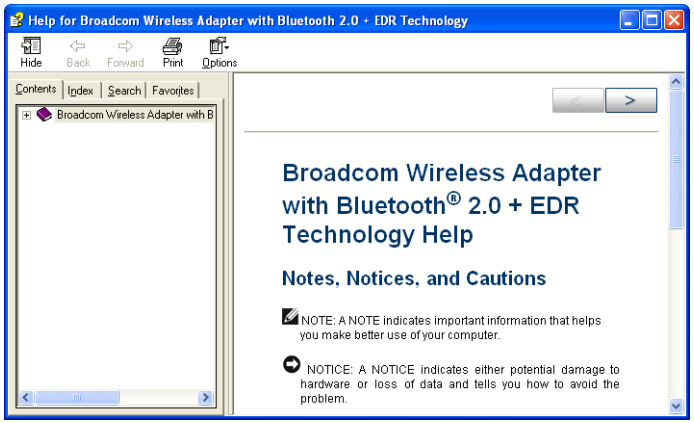
Using Bluetooth

Describes how to exchange files between computers supporting Bluetooth and how to use other Bluetooth devices.

Bluetooth Help

Bluetooth Help provides detailed procedures on using Bluetooth functions.

Double-click **My Bluetooth Settings** on the **Desktop** and press the <**F1**> key (Help).

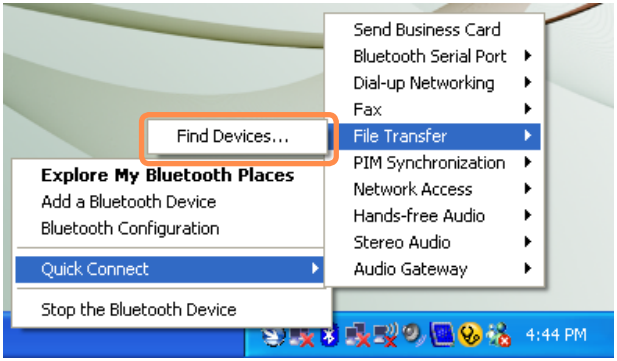

Help for Broadcom Wireless Adapter with Bluetooth 2.0 + EDR Technology
Hide
Back
Forward
Print
Options
Contents
Index
Search
Favorites
Broadcom Wireless Adapter with B
Broadcom Wireless Adapter with Bluetooth® 2.0 + EDR Technology Help
Notes, Notices, and Cautions
NOTE: A NOTE indicates important information that helps you make better use of your computer.
NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

Select **Start > Help and Support > Networking and the Web > Networking > Wireless networking > Bluetooth devices (wireless)** to view Windows Help.

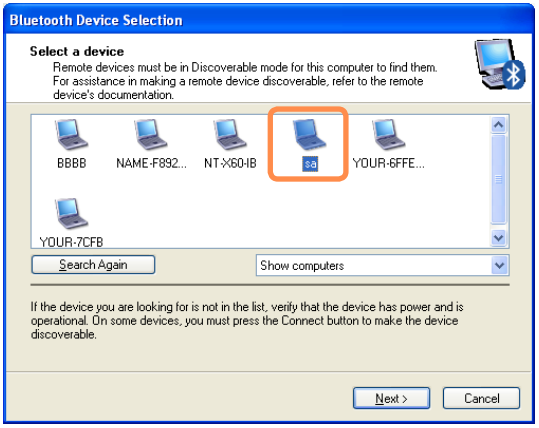
Exchanging Files between Bluetooth computers

The procedures to exchange files and folders between Bluetooth computers are described below.

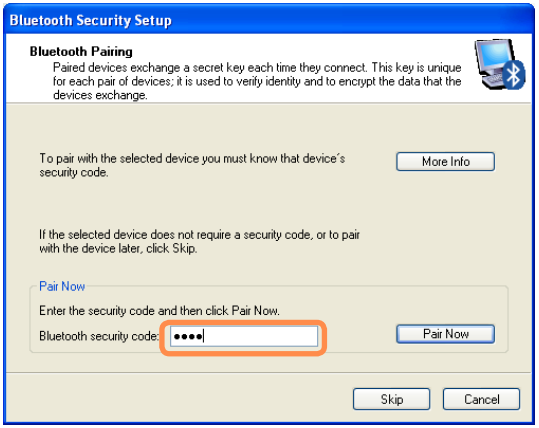
1 On the computer that is sending a file (hereafter Computer A), right-click the **Bluetooth** icon ( ) in the notification area and select **Quick Connection > File Transmission > Search for Device**.



2 In the **Select Device** window, click a computer to be connected (hereafter Computer B).

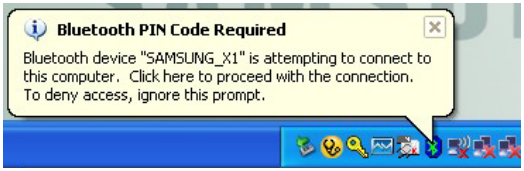

Bluetooth Device Selection
Select a device
Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.
BBBB
NAME-F892...
NT-X60-IB
YOUR-6FFE...
YOUR-7CFB
Search Again
Show computers
If the device you are looking for is not in the list, verify that the device has power and is operational. On some devices, you must press the Connect button to make the device discoverable.
Next >
Cancel

3 When the Bluetooth Security Setting window appears, enter the **Bluetooth security code (or Bluetooth PIN)** and click **Start Pairing**.


Bluetooth Security Setup
Bluetooth Pairing
Paired devices exchange a secret key each time they connect. This key is unique for each pair of devices; it is used to verify identity and to encrypt the data that the devices exchange.
To pair with the selected device you must know that device's security code.
More Info
If the selected device does not require a security code, or to pair with the device later, click Skip.
Pair Now
Enter the security code and then click Pair Now.
Bluetooth security code:
Pair Now
Skip
Cancel

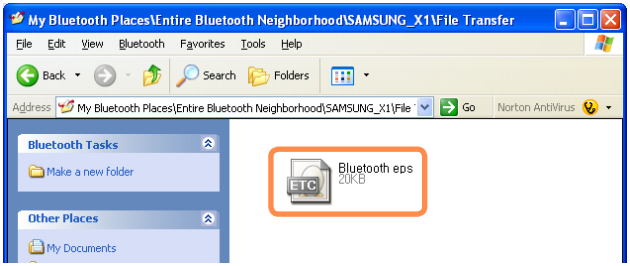
The **Bluetooth PIN Code** is a password used for the connection between two Bluetooth devices, the user just enter the same PIN Code (for example, same numbers) on both Bluetooth devices to make a connection.

4 After a short while, the Bluetooth PIN Code required dialog box appears on **Computer B**, enter the code that you have input in Step 3 above.


Bluetooth PIN Code Required
Bluetooth device "SAMSUNG_X1" is attempting to connect to this computer. Click here to proceed with the connection.
To deny access, ignore this prompt.

5 If the FTP File Access Privilege Request window appears on **Computer B**, click the window. If the Select Access Permission window appears, click **OK**.

6 The file transmission window appears on computer A. Drag files or folders to send onto the window, and the files or folders are automatically transmitted.



7 If the file transmission is complete, close the File Transmission window. The received files are saved in the **C:\Documents and Settings\[user name]\My Documents\Bluetooth Exchange** folder.

Connecting Keyboard, Mouse, Joystick and Headset devices

The procedures to use Bluetooth HID devices (keyboard, mouse, joystick, etc.) or a headset, etc. on the computer are described below.

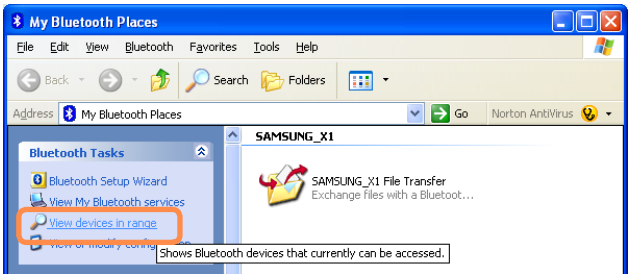
The **Bluetooth PIN Code** is a password used for the connection between two Bluetooth devices, the user just enter the same PIN Code on both Bluetooth devices to make a connection.

1 Turn on the Bluetooth function on the device to connect to (mouse, keyboard, joystick or headset).

Some devices have a button to turn on the Bluetooth function, so see the corresponding device manual.

2 Double-click the **My Bluetooth Settings** icon ( ) on the Desktop.

3 If the My Bluetooth Settings window appears, click **View devices in range**.
If the device to connect to appears, click the device. (for example, mouse)



If the device does not appear, click **View devices in range**. If the device has not appeared yet, since this menu changes to **Search devices in range**, click **Search devices in range** to show the device.

4 If the **Bluetooth PIN Code** input window appears, enter a PIN code referring to the manual of the corresponding device.

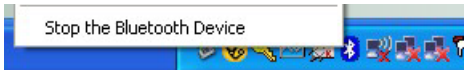
The PIN code for an HID device is generally printed in the manual of the corresponding device.

5 If you enter the PIN code, you can immediately use the device.

A Bluetooth keyboard and mouse work only in Windows. They will not work in MS-DOS mode or in Hibernation mode.

Stopping a Bluetooth device

Right-click the **Bluetooth** icon ( ) on the Taskbar and select **Stop the Bluetooth device**.



To use a Bluetooth device after stopping it, select **Start Bluetooth device** like above.

Usage Instructions

- Generally, Bluetooth devices deliever stable performance while connected within a 3m(10 ft.) distance.
- For Bluetooth to operate smoothly, use the computer in an open environment with no walls or obstacles in the way and having low radio interference.
- You can connect to only one Bluetooth device at a time for a phone connection, data syncing, electronic business card exchange, FAX transmission/reception, sound related functions, and serial port functions.
- It is recommended using only one Bluetooth device at a time as connecting multiple Bluetooth or other wireless devices at the same time may slow or destabilize the Bluetooth connection.
- Data communications via Bluetooth may be poor when the CPU load is at full capacity or there are insufficient system resources.
- The Bluetooth function of a Bluetooth PDA, mobile phone, mouse or keyboard may be turned off. To use them in connection with a Samsung computer supporting Bluetooth, you must check if the Bluetooth function of the device to connect to is turned on.

  For the procedures on turning on the Bluetooth function of a device, refer to the relevant device manual.
- The services provided by Bluetooth devices may vary depending on their capabilities. For the services provided by the Bluetooth device, refer to the device manual.

Chapter 5.
Using Applications

Introducing Programs 106
CyberLink DVD Suite (Optional) 109
AVStation premium (Optional) 112
AVStation Viewer (Optional) 122
Play Camera (Optional) 127
Samsung Update Plus (Optional) 130
Using McAfee SecurityCenter (Optional) 132
OmniPass (Fingerprint Identification software, Optional) 136
Using Samsung Magic Doctor (Optional) 142
Reinstalling Software 143
Samsung Recovery Solution (Optional) 145

Introducing Programs

Using the software supplied with the Samsung computer, you can easily use functions and troubleshoot problems.

Try to use the software after learning about the basic use of the software. For detailed information, refer to the help section of the corresponding software.

Every software program may not be provided or the version may differ depending on your computer model.

In addition, the screen capture images may differ from actual product depending on the computer model and software version.

Multi Media Functions

■ **CyberLink DVD Suite** (, Optional)

Using this program, you can use multimedia functions such as playing a DVD, burning a DVD/CD etc.
The CyberLink DVD Suite program is only supplied when you have purchased an external ODD, and you have to install the program additionally.
p.109

■ **AVStation premium** (, Optional)

AVStation premium is an integrated multimedia program that enables users to enjoy better music, photographs, video, movies, etc. quality all with a single program. p.113

■ **AVStation Viewer** (, Optional)

This is a program that allows you to easily play AVStation premium in full screen. p.123

■ **Play Camera** (, Optional)

This software enables taking pictures and video recording by using the cameras on the front and back of the computer. p.128

Management Functions

■ **Samsung Update Plus** (, Optional)

Samsung Update Plus is a software function that examines and updates the Samsung software and drivers installed on your Samsung computer to the most recent versions. p.111

■ **Samsung Network Manager** (, Optional)

Samsung Network Manager is a program that enables you to easily configure the network settings.
You can configure the network settings for each location and you can also diagnose the network status. p.91

■ **Samsung Battery Manager** (, Optional)

Samsung Battery Manager is a power management program that provides easy-to-use power management and power saving settings so that the battery usage time can be extended.
p.150

■ **Touchkit** (, Optional)

Touchkit is a program used to calibrate the Stylus Pen when the pointer position is not correct. p.47

■ **OmniPass** (, Fingerprint Identification software, Optional)

OmniPass is fingerprint identification software. You can register your fingerprint and use it by placing your finger on the fingerprint identification sensor instead of using a password. You can turn the computer on, login to Windows and encrypt a file, all using your fingerprint. p.131

Troubleshooting Functions

■ **SAMSUNG Magic Doctor** (, Optional)

SAMSUNG Magic Doctor is troubleshooting software provided by Samsung Computer for system diagnosis, and restoring the system. The system diagnosis function enables users to diagnose system problems without assistance from others.

■ **Samsung Recovery Solution** (, Optional)

Using this program, you can restore your computer to its initial status before a problem occured while using the computer.

CyberLink DVD Suite (Optional)

The CyberLink DVD Suite provides you with multimedia functions such as playing a DVD, burning a DVD/CD etc.

The CyberLink DVD Suite program can only be used when you have purchased an CD/DVD drive, and you have installed the program.
It is optional and is not supplied with some models.

1 Insert a DVD title into the CD/DVD drive.

2 Select **Play DVD Video Using PowerDVD** and click the **OK** button.

After a moment, the DVD title will play.

FELLOWSHIP_EXT_D2 (D:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
DVD movie
What do you want Windows to do?
Play DVD Video using Windows Media Player
Play DVD Video using Samsung AVStation 3.75
Copy Disc or Play Movie using PowerStarter
Play DVD Video using PowerDVD
Open folder to view files
Always do the selected action.
OK
Cancel

3 If the DVD title is not automatically played, click **Start > All Programs > CyberLink DVD Suite > Power DVD > CyberLink PowerDVD**.

4 Click **Play** from the CyberLink skin menu.

The DVD movie starts to play.

If you click the **Undock Player Panel** button, the program control panel transforms as follows.

■ **Detailed Usage**

For more detailed usage, click **Start > All Programs > CyberLink PowerDVD > PowerDVD Help**.

■ **DVD Region Code**

A DVD title has a region code according to the international specifications so that it can be played only in that specific region.
DVD titles with a region code will only play on DVD drives and program for playing with the same region code.

A DVD drive is sold with an empty region code and the region code is set when the user inserts a DVD title into the drive for the first time. Whenever a DVD title is inserted with a region code different from that of the DVD drive, the region code of the DVD drive is automatically changed to the region code of the DVD title.

However, changing the region code of a DVD drive is limited to 5 changes. After that, the region code is permanently fixed to the last region code. If you need to change the region code after changing the code 5 times, contact a service center. Although a service center can help you in this case, you will be charged a service fee.

Using Additional Functions

The Cyberlink DVD Suite provides functions to record data, burn a DVD/CD title, edit videos/photos etc.

1 Click **Start > All Programs > CyberLink DVD Suite > CyberLink DVD Suite**.

Alternatively, double-click the **CyberLink DVD Suite** ( ) icon on the Desktop.

CyberLink DVD Suite

2 The User Registration screen appears.

Enter your personal information including your last name, first name and e-mail address when connected to the Internet and click the Register Now button.

3 The Cyberlink DVD Suite screen appears.

Menu Functions **Menu**

Favorites		You can save frequently used menus so that you can use them quickly.
Movie Player		You can play a DVD title.
Data		You can record data to a CD or DVD.
Music		You can create an audio/ WMA CD or WMA DVD, and rip an audio CD.
Video & Photo		You can create a DVD title, save HDV/DV video, edit video, and record a DVD folder.
Copy & Backup		You can copy DVD/CD data.
Utility		You can create a disk image, save and delete an image and print a label.

For the detailed usage procedures for each of the functions, refer to the help section of the corresponding program.

AVStation premium (Optional)

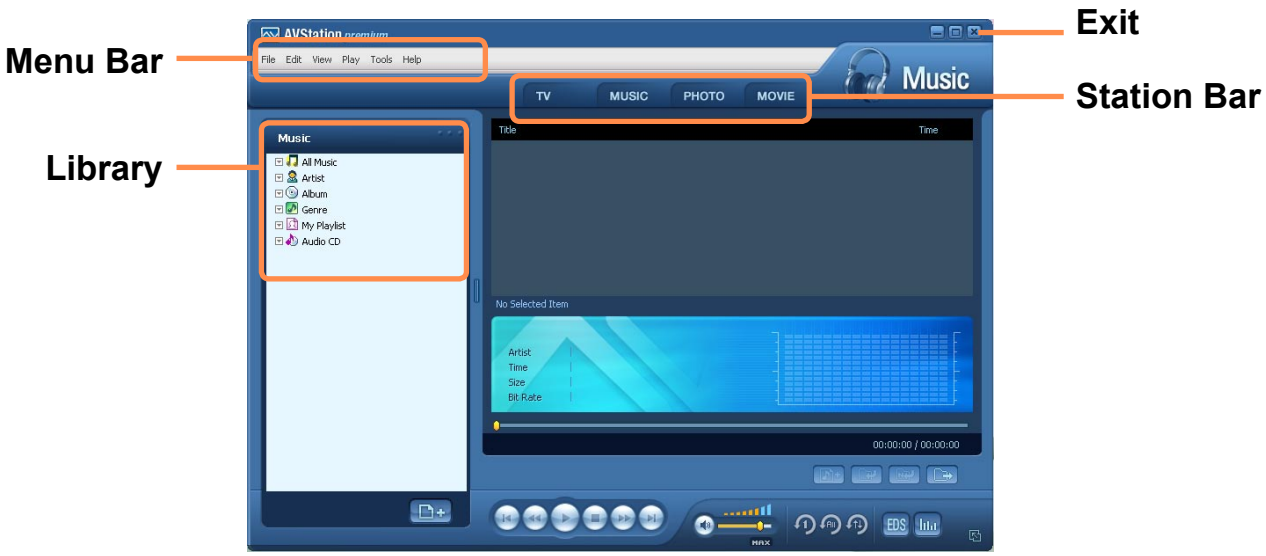
AVStation premium is an integrated multimedia program that enables users to enjoy music, photographs, video, movies, etc. all with a single program.

- The AVStation premium program is optional and may not be provided depending on the computer model.
- The screens used in this manual may differ from actual screens according to the program version.
- TV Station is only available for systems supporting a TV function. This computer is not supported.
- To play an audio CD or DVD, you have to connect an external ODD. Use the description below provided that an external ODD is connected.
- For detailed usage, refer to the program help.

Start and Screen Layout

To launch the program, select **Start > All Programs > Samsung > AVStation premium > AVStation premium**.

Alternatively double-click the **AVStation premium** icon ( ) on the Desktop.



MUSIC: You can play a music file or an audio CD.

PHOTO: You can view or edit a photograph (image), and also view the photographs in a SlideShow.

MOVIE: You can play a video (movie) file.

MUSIC Station

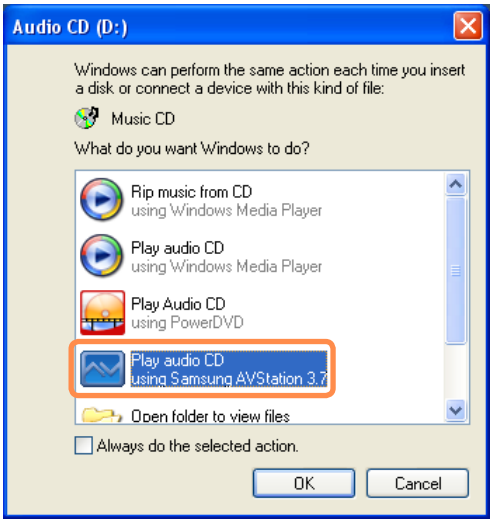
Launch AVStation premium and click **MUSIC** on the Station Bar.

Playing an Audio CD

The procedures to play an audio CD are described below.

1 Launch AVStation premium and insert an audio CD into a CD drive connected to this computer.

2 In the **Audio CD** window, select **Play Audio CD using Samsung AVStation** and click the **OK** button.


Audio CD (D:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Music CD
What do you want Windows to do?
Rip music from CD using Windows Media Player
Play audio CD using Windows Media Player
Play Audio CD using PowerDVD
Play audio CD using Samsung AVStation 3.7
Open folder to view files
Always do the selected action.
OK
Cancel

3 The tracks on the audio CD are displayed in the Playlist and the first track is automatically played.

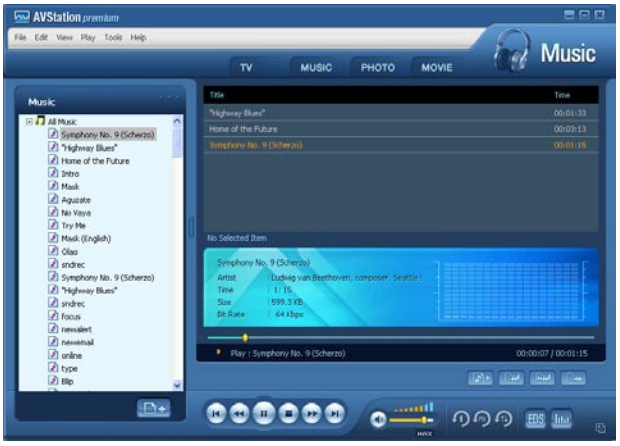
If an audio CD is already in the CD drive, double-click the **album title** in the **Audio CD** folder of the Library and add the tracks to the Playlist. The tracks added to the Playlist are played.

Playing a Music File

If a music file is registered to the MUSIC Library, you can easily play the music file. For the procedures to register tracks to the Library, refer to p.116.

1 Move to **MUSIC Station** and double-click on **All Musics**.

2 Double-click a music file. The file is added to the playlist and played.



■ **Playing a Track not registered to the Library**

Click **File > Open**, select a music file to be played and click **Open**. The selected track is registered to the Library and played.

■ **Creating My Playlist**

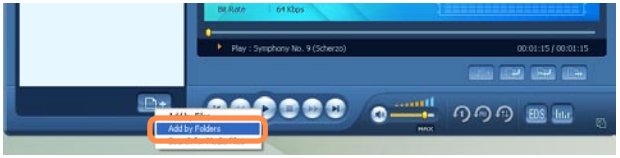
My Playlist is a personal album used to collect, manage and play your favorite music files. For the procedures to create My Playlist, refer to the descriptions of MUSIC Station in Help.

Adding Music Files to the Library

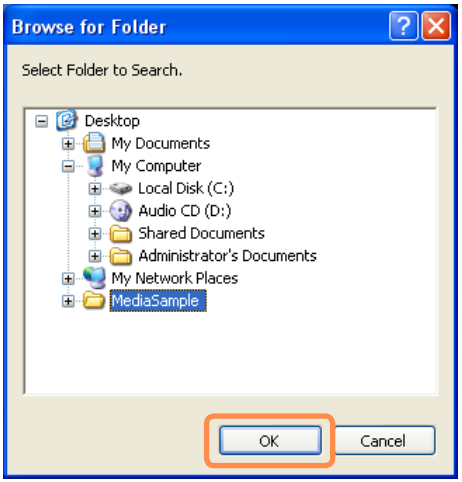
MUSIC Library is a library of music files used by MUSIC Station. The procedures to add music files saved on the computer to the Library are described below.

You can add files, folders or search and add files. As an example, the procedures to add a folder are described below.

1 Click on the **Register a File** ( ) button below the Library and click on **Add by Folders**.



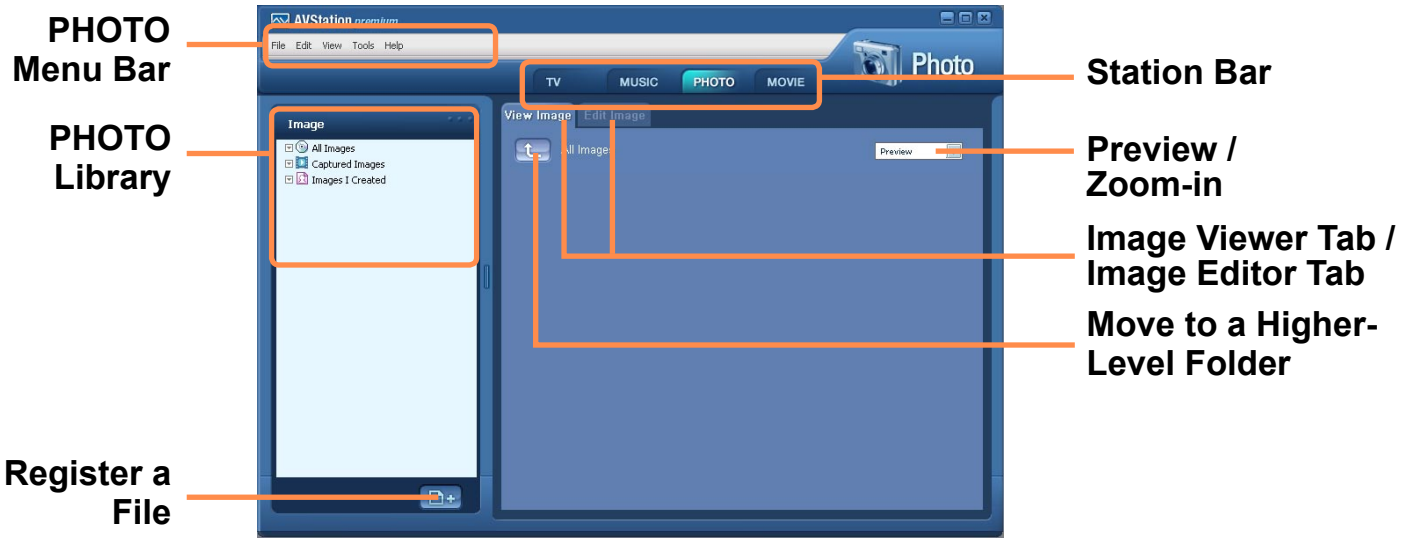
2 Select a folder which includes music files and click the **OK** button. The music files in the folder are added to the Library.



The tracks used in AVStation are automatically added to the Library.

PHOTO Station

Launch AVStation premium and click **PHOTO** on the Station Bar.



Viewing an Image

The procedures to view images registered to the PHOTO Library individually or via a SlideShow are described below.
For the procedures to register image files to the Library, refer to p.120.

1 Move to **PHOTO Station** and double-click on **All Images**.

2 Click on a folder which includes images, and the images in the folder are displayed in the **Image Viewer window**.

3 Double-click on an image.
The selected image is zoomed in on.

■ **Viewing an Image not registered to the Library**

Click **File > Open**, select an image file to view and click **Open**.

The selected image file is registered to the Library and displayed in the Image Viewer window.

■ **Viewing an Image in Full Screen or through a SlideShow.**

Click the **Full Screen** ( ) button or **SlideShow** ( ) button below the Image Viewer window.

To return to the Image Viewer window, double-click on the screen.

■ **Watching a SlideShow while Listening to Music**

To view a SlideShow while listening to music, play music from MUSIC Station and run SlideShow.

■ **Setting an Image as the Background.**

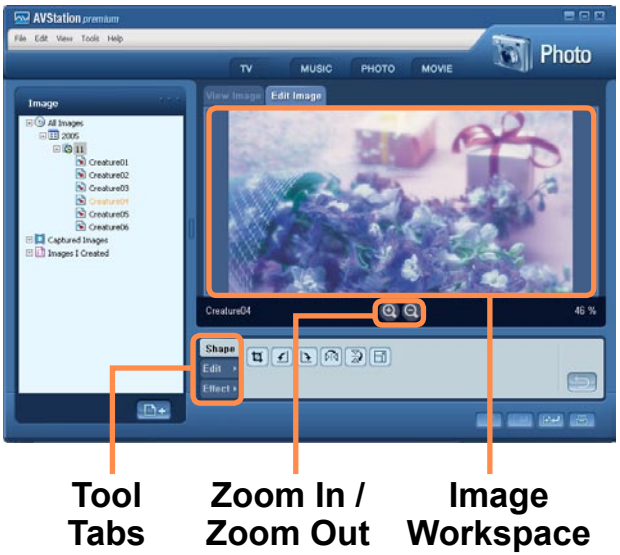
Click the **Set as Background** ( ) button below the Image Viewer window. The selected image is set as the Desktop background.

Editing an Image

You can change the shape of an image, edit an image or apply special effects to an image. The image editor functions are described below.

1 Select an image to edit in the **Image Viewer window**, and select the **Image Editor** tab. The Image Editor screen appears.

The Image Editor screen consists of an **Image Workspace window** and **3 Tool tabs**.



2 Edit the image using the **Shape**, **Edit** and **Effect** tools.

Shape tool: Change the shape of an image through cut, resize.

Edit tool: Draw a line, add some clip art or enter letters.

Effect tool: Apply various effects to an image.

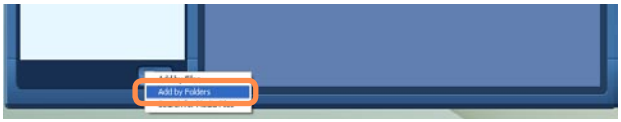
3 When finishing editing an image, click the **Save Edited Image** ( ) button below the Image Editor window.
The edited image is saved.

Adding Images to the Library

The PHOTO Library is a library storing image files to be used by PHOTO Station. The procedures to add image files saved on the computer to the Library are described below.

You can add files, add folders or search and add files. As an example, the procedures to add folders are described below.

1 Click the **Register a File** ( ) button below the Library and click on **Add by Folders**.

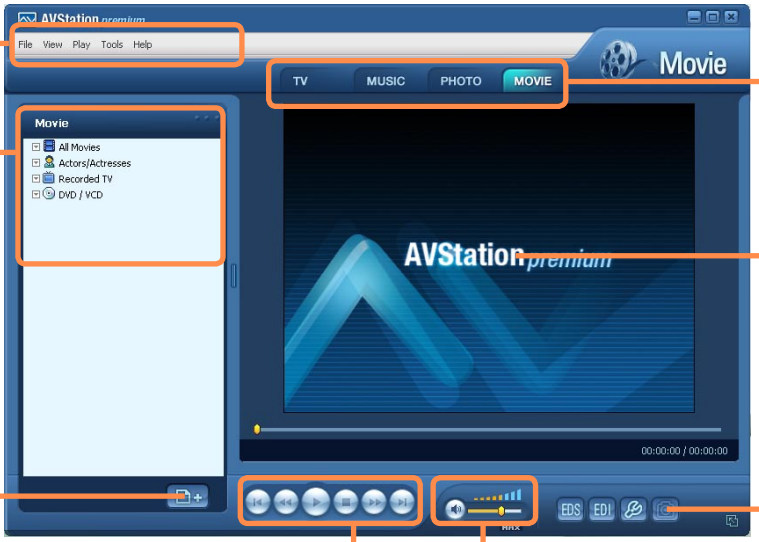


2 Select a folder with image files and click the **OK** button.
The image files in the folder are added to the Library.

The image files used in AVStation are automatically added to the Library.

MOVIE Station

Launch AVStation premium and click on **MOVIE** on the Station Bar.



Playing a Movie File

The procedures to play a video file registered to the MOVIE Library are described below.
For the procedures to register files to the Library, refer to p.122.

1 Move to **MOVIE Station** and double-click **All Movies**.

2 Double-click a video file. The file is played.

■ **Playing a Video File not Registered to the Library**

Click **File > Open File**, select a movie file to be played and click **Open**. The selected file is automatically registered to the Library and played.

■ **Playing a Video File in Full Screen**

1. Double-click on the current playback screen.
2. The video is played in full screen. In full screen, move the mouse pointer to the bottom of the screen to show the Play Control bar.

   To play at the default screen size, double-click on the screen.

■ **Capturing the Video Screen**

Click on **Capture Current Screen** ( ) below the Play window when the desired image appears on the screen and click the **OK** button.

Captured images are saved in the **C:\Program Files\Samsung\AVStation premium x.x\Data\Captured Images** folder.

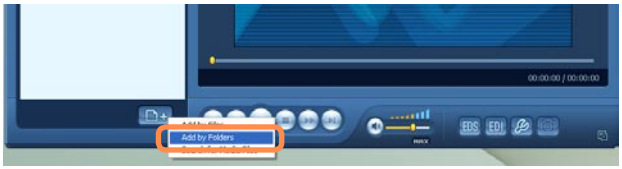
In addition, you can view captured images in the **PHOTO Station > Captured Images** folder.

Adding Videos to the Library

The MOVIE Library is a library storing video files to be used by MOVIE Station. The procedures to add video files saved on the computer to the Library are described below.

You can add files, add folders or search and add files. As an example, the procedures to add folders are described below.

1 Click the **Register a File** ( ) button below the Library and click **Add by Folders**.



2 Select a folder which includes video files and click the **OK** button. The video files in the folder are added to the Library.

The video files used in AVStation are automatically added to the Library.

AVStation Viewer (Optional)

Using AVStation Viewer, you can easily and quickly play music, photographs, movies and DVDs when the computer is on/off.

- The AVStation Viewer program is optional and may not be provided depending on the computer model.
- **AVStation Viewer Restrictions**

  Using AVStation Viewer, you can only play files registered to the AVStation premium Library. (For the procedures to register files to the Library, refer to p.116, p.120 and p.122.)
- The screenshots figures may differ from actual product depending on the program version.

Start AVStation Viewer

Starting

When the computer is on or off, press the **AV** button ( ).

The AVStation Viewer program is launched.

Alternatively, click **Start > All Programs > Samsung > AVStation premium > AVStation Viewer**.

If the **HOLD switch** on the left side of the computer is slid upwards all buttons of the computer are locked and do not work. If AVStation Viewer is not launched, check the position of the **HOLD switch**.

Exiting the program

Move the mouse pointer to the top of the screen and click the **Exit** ( ) button.

Screen Layout

Music: You can play a music file or audio CD.

Photo: You can view a photograph or image file one by one or in a SlideShow.

Movie: You can play a video (movie) file.

Settings: You can configure the Music, Photo and Movie settings.

Move to the start screen while using the program

Click over the top left in the current screen. Then the icon appears. When clicking this icon, you can move to the start screen.

Music Station

The procedures to play a music file or an audio CD are described below.

Playing a Music File

The procedures to play a music file registered to the Music Library are described below.

(For the procedures to register files, refer to p.116.)

1 Launch AVStation Viewer and click on **Music**.

2 Click on **All Musics** and double-click a file in the right pane.
The music file is played.

All Musics **Music File** **Playlist Window**

Playing an Audio CD

1 Launch AVStation Viewer and insert an audio CD into a CD drive connected to this computer.

2 In the AVStation Viewer start screen, click on **Music**.

3 Double-click the **Audio CD** in the left pane and double-click on an album or music file in the right pane. The selected music file is played.

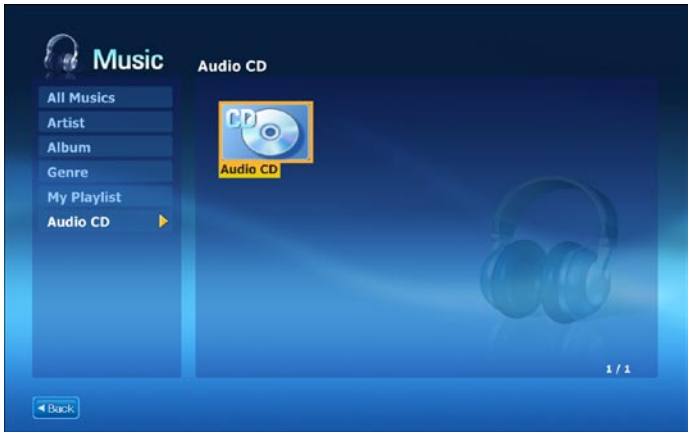


Photo Station

The procedures to view images registered to the Photo Library one by one and through a SlideShow are described below.

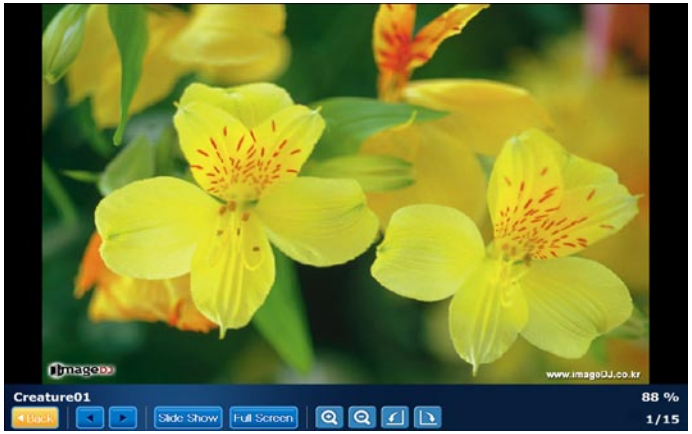
(For the procedures to register files, refer to p.120.)

1 Launch AVStation Viewer and click on **Photo**.

2 Click on **All Images** and double-click on an image file in the right pane.

All Images **Image File**

3 The selected image is zoomed in on.



To view an image in Full Sreen or via a SlideShow.

Click on the **SlideShow** or **Full Screen** button below the zoomed in image.

To return to the previous status in the SlideShow or Full Screen, double-click on the screen.

Movie Station

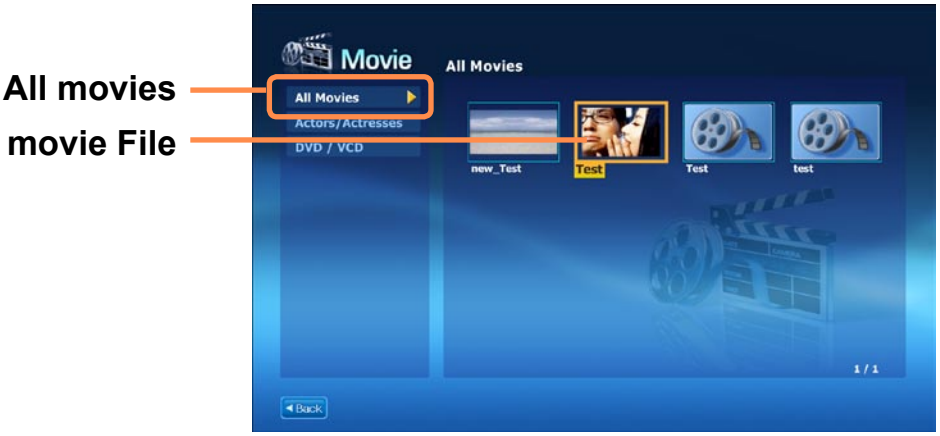
The procedures to play a video (movie) file are described below.

Playing a Movie File

The procedures to play a video file registered to the Movie Library are described below. (For the procedures to register files, refer to p.122.)

1 Launch AVStation Viewer and click the **Movie**.

2 Click on **All Movies** and double-click a movie file in the right pane. The movie file is played.



Displaying the Play Control window

When clicking on the screen once, the Play Control window appears at the bottom.

Play Camera (Optional)

This computer provides an optional dual camera on the front and back so that users can take pictures or record video.

If your computer model is equipped with the dual camera, you can take pictures or record video using the Play Camera software.

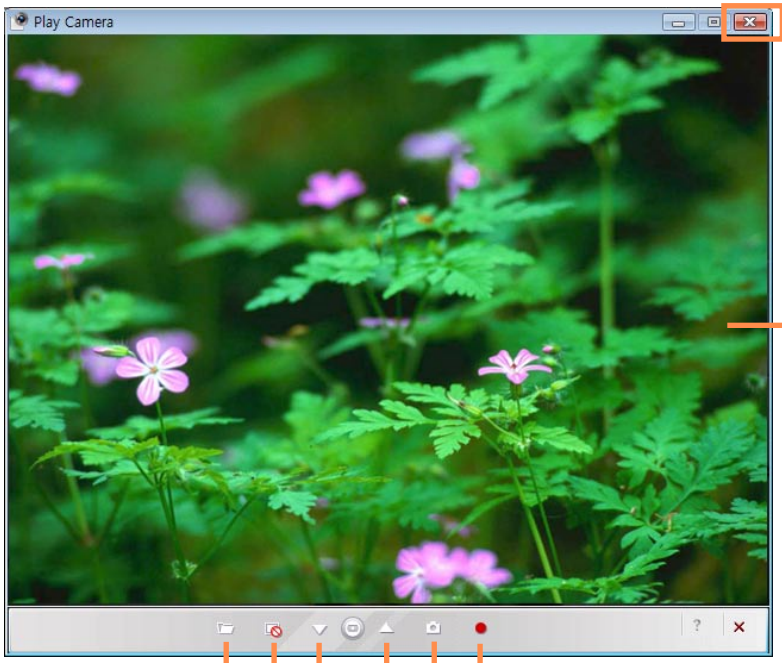
- This function is applied to some models only.
- The program version number in this manual is subject to change and the screen figures and terminologies may differ from the actual product.
- For more detailed usage procedures, refer to the program Help.

Precautions when Taking a Picture

- Do not take a picture or record video of a person without that person's consent.
- Do not take a picture or record video where photographing is prohibited.
- Do not take a picture or record video where you may violate another person's privacy.

Photographing Procedures 1.

1 Select **Start > All Programs > Samsung > Play Camera > Play Camera**.


Play Camera
Close the Window
Preview Window
Open Folder: Opens the folder which includes photos or videos.
Preview Window: Shows or hides the Preview window.
Front Camera: Select to use the front camera.
Rear Camera: Select to use the rear camera.
Capture Screen (Still Picture): Takes a picture.
Record: Records video.

2 Press the **Front Camera** ( ) or **Rear Camera** ( ) button, focus on an object and press the **Capture Screen** ( ) button. To record video, press the **Record** ( ) button.

To stop a video recording, press the **Stop** ( ) button. Recording will stop.

3 Press the **Open Folder** ( ) button to view pictures or recorded videos.

- You can view a photo by double-clicking it.
- Since you cannot view recorded video files using the Play Camera, please use another video player (e.g. Windows Media Player, Cyberlink PowerDVD, etc.) to view video files.

Photographing Procedures 2.

1 When the computer is on, press the **SHUTTER** button at the top.

2 When the Play Camera program is launched, press the **Shutter** button again. A picture will be taken.

To switch the active camera to the rear or front camera, press the **Front Camera** ( ) or **Rear Camera** ( ) in the Play Camera screen and press the **Shutter** button.

To record video, click the Record ( ) button of the Play Camera program.

3 Press the **Open Folder** ( ) button to view pictures and recorded videos.

- In the Preview window, right-click to configure the camera settings, the resolution and device settings, the save folder, etc.
- The Play Camera supports up to 1280 x 1024 pixels. Photographs are taken with the resolution selected but the photographs displayed on screen are only 640 x 480 pixels due to restrictions of the screen size.

- Video files recorded by the Play Camera are saved with a 320 x 240 pixels resolution.
- Since you cannot view recorded video files using the Play Camera, please use another video player (e.g. Windows Media Player, Cyberlink PowerDVD, etc.) to view video files.
- Switch front/rear camera by Play Camera program while you are video chatting through any other program. You can not preview images, take pictures, or record video with Play Camera when you are using other program.
  You can not take pictures while you are video chatting.

Samsung Update Plus (Optional)

Samsung Update Plus is software that examines and updates the Samsung software and drivers installed on your Samsung computer to the latest version.

- To search for updates and update your computer using Samsung Update Plus, your computer must be connected to the Internet.
- The update search result may differ depending on your computer model.

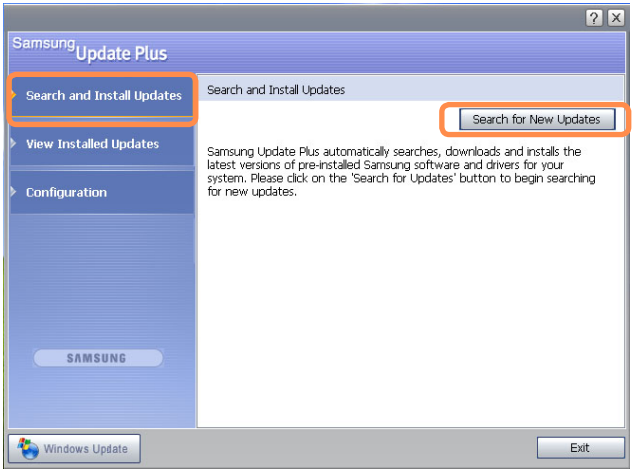
Samsung Update Plus does not provide updates for applications installed after purchasing the computer.

To update the software and drivers

1 Click **Start > All Programs > Samsung > Samsung Update Plus > Samsung Update Plus**.

If this is the first time you are running the program, a window will appear asking you if you agree to the agreement in the window. Click Agree to use this software.

2 Click **Search for and Install Updates** and click the **Search for New Updates** button.


Samsung Update Plus
Search and Install Updates
View Installed Updates
Configuration
SAMSUNG
Search and Install Updates
Search for New Updates
Samsung Update Plus automatically searches, downloads and installs the latest versions of pre-installed Samsung software and drivers for your system. Please click on the 'Search for Updates' button to begin searching for new updates.
Windows Update
Exit

3 If there are available software or driver updates for your computer, the available updates will be listed. Select the required updates from the list and click on **Install Updates** to start the update.

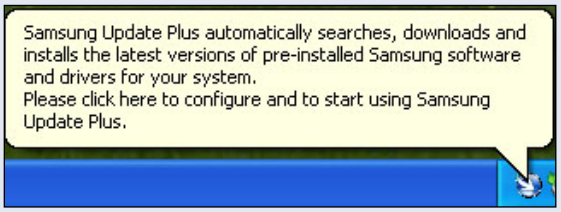
Samsung Update Plus
Search and Install Updates
View Installed Updates
Configuration
SAMSUNG
Search and Install Updates
Install Updates
Sound Driver: Sigmatel C-Major Audio (v6.14.10.4192)
File size: 5.27MB
Sound Driver for Sigmtel C-Major Audio 6.14.10.4192
* System must be restarted after the installation of this update.
* This update must be installed separately from other updates.
Install
Do Not Install
Graphics Driver: Intel 82865G Graphics Controller - 6.14.10.3885
File size: 5.71MB
Intel(R) 82865G Graphics Controller - 6.14.10.3885
* System must be restarted after the installation of this update.
Windows Update
Exit

Updates that must be installed separately.

If you select **Install** for an update item that must be installed separately, a message appears informing you of this. Follow the instruction message to correctly install it.

Automatic update items display

By default, your computer is configured to automatically search for updates. If there is a new update available, this is displayed in the notification area. Click the balloon help icon in the notification area. Here you will be able to find the latest available updates.


Samsung Update Plus automatically searches, downloads and installs the latest versions of pre-installed Samsung software and drivers for your system.
Please click here to configure and to start using Samsung Update Plus.

Using McAfee SecurityCenter (Optional)

McAfee SecurityCenter (a virus/spyware detection and protection software that includes a firewall function. Hereafter, referred to as “McAfee”) is software that protects your PC from various Internet threats as well as detecting and removing viruses.

- For more detailed information on the program, refer to the McAfee help.
- You can register McAfee when connected to the Internet.
- McAfee software is optional. It may not be supplied for some models or it may be supplied through the McAfee installation icon.
  When the installation icon is provided, you have to install the program referring to the Installing McAfee section.
- A different anti-virus program may be provided depending on the computer model.

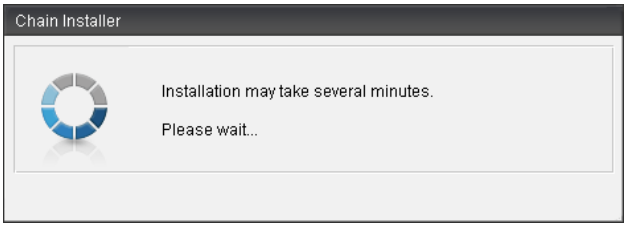
Installing McAfee

For some models, an **Install McAfee Web Essentials** icon is located on the Desktop. In this case, you can install the McAfee software according to the following procedures and then use the McAfee software.

For some models, a **McAfee Security Center** icon ( ) is located on the Desktop, since the software is already installed, the installation step is not required.

1 Double click the **Install McAfee Web Essentials** icon ( ) on the Desktop.

2 The **Chain Installer** window opens and the installation begins automatically. Please wait for a moment.



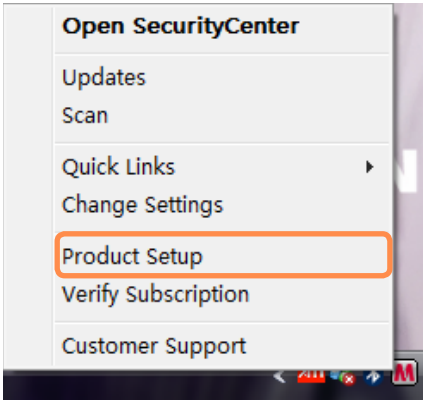
3 When the instillation is complete, the **Chain Installer** window disappears.

Using McAfee

To use McAfee, user registration is required. If a user is not registered, even though virus inspection is supported, your PC will not be completely protected because the virus information will not be updated with the latest information. The procedures to inspect and heal viruses after the user registration will be described below.

User Registration

1 The **Program Setup** screen appears while booting.
Click **Next**. If the **Program Setup** screen does not appear, right-click over the McAfee icon ( ) in the Taskbar and then select **Product Setup** from the pop-up menu.



2 The **End User License Agreement** appears.
Check if the country has been correctly selected and then click **Accept**.

3 The **Create New McAfee Account** item appears.
Be sure to fill in all the fields and click **Next**. The **Program Setup Completed** window appears.

If you have already registered with McAfee, click **Login** and enter the registered email address and password to login. The **Program Setup Completed** window appears.

Inspecting and Healing Viruses

The procedures to check if the computer's files or information have been infected by a virus and to heal viruses found by McAfee are described below.

1 Click **Start > All Programs > McAfee > McAfee SecurityCenter**.

2 Click the **Scan** button on the left side of the program.
The **Scan** begins. At this time, if a virus is found, it is immediately healed during the inspection.

3 If a virus has been found, click **View Results**.

The viruses are listed. Since the corresponding viruses have already been removed, you can use your computer without any concern.

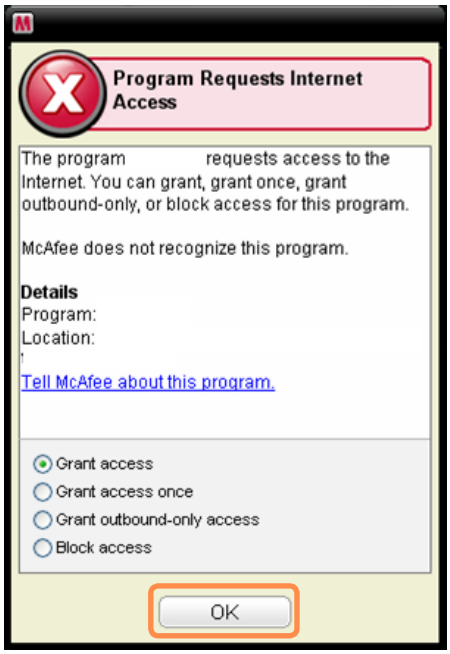
- For possible virus infections (where it is not completely certain), the **Detected** message appears. In this case, the items will be maintained or deleted depending on your decision.
- To deal with new viruses, please always keep McAfeeSecurityCenter up to date. In general, it is automatically updated when connected to the Internet. Alternatively, you can update it manually by clicking **Update** (Update) after connecting to the Internet.

Configuring the McAfee Firewall

The McAfee Firewall is configured for the product when purchasing the product in order to protect the computer from viruses. However, if the firewall is activated, you may not connect to the network or the Internet properly. In this case, you have to change the settings as follows.

Method 1) When you need to select Allow Access in the Server or Internet Access Request window.

When you connect to a bank, stock market, or gaming website, an access request window appears. In this case, select **Allow Access** in the window and click **OK**. Then you can install the program normally or open the page.


Program Requests Internet Access
The program requests access to the Internet. You can grant, grant once, grant outbound-only, or block access for this program.
McAfee does not recognize this program.
Details
Program:
Location:
Tell McAfee about this program.
Grant access
Grant access once
Grant outbound-only access
Block access
OK

Method 2) When you need to deactivate the Firewall

If you cannot connect to the Internet when using a broadband Internet service, you can connect to the Internal normally if you disable the McAfee Firewall.

However, since it may cause a security problem, be careful when doing so.

1. **Double-click** the **McAfee Security Center** icon from the Desktop.
2. Click the **Advanced menu** at the bottom left and click **Configure > Internet&Network**.
3. Turn the **Internet&Network** at the right to **Off**, set the **Select when to re-enable firewall** to **Never** and then click **OK**.
4. Click **Home** in the left menu pane and click **Ignore** next to the '**Firewall protection is disabled**' message.

It is recommended activating the Windows Firewall for your computer's safety when you have disabled the McAfee Firewall. To activate the Windows Firewall, click **Start > Control Panel>Security>Turn Windows Firewall on or off> On(recommended)** (When your Control Panel is set to the 'Classic View' of Windows Vista or when you are using Windows XP, click **Start > Control Panel > Windows Firewall > Change Settings > On(recommended)**.)

OmniPass (Fingerprint Identification software, Optional)

(Fingerprint Identification, Integrated Password Authentication)

Using the OmniPass program, you can use the following functions.

Fingerprint Identification Function

You can register your fingerprint and use it instead of a password.

Integrated Password Authentication Function

You can use your Windows user account information using the Integrated Password Authentication Function.
If you register your Windows user account(s) information with the OmniPass program, you can login to Windows or onto websites using a single password.

- This function is applied to some models only.
- The program version described in this manual is subject to change and some functions may not be provided due to restrictions in the program.
- This model does not support the function which turns the computer on via a fingerprint.

  For more detailed information on the usage procedures, refer to the Help section in the OmniPass program(Fingerprint Identification, Integrated Password Authentication).

Signing Up

You have to register your fingerprint and Windows user account information as follows to use the fingerprint identification and integrated password authentication functions.

When using the fingerprint identification sensor

Keep your finger clean and dry when touching the sensor.

Place your finger over the fingerprint sensor and push gently down.

1 Select **Start > All Programs > Omnipass > OmniPass Control Center**.
Turn the computer on and click the **Start** button in the **Omnipass** window.

2 Click **Run Enrollment Wizard** to start the registration.

3 For the integrated password authentication step, complete the following.

Enter the Windows user ID and logon password and click the **Next** button.

If you do not enter a logon password, the integrated password authentication function will be permitted to anyone; it is therefore recommended entering a logon password.

Creating a user logon password.

❶ Select **Start > Control Panel > User Accounts > Create password for user account.**

❷ Enter a password in the New Password field, and re-enter the password in the Confirm New Password field. Click **Create Password**. A password has been created.

4 To register a fingerprint, click on **AuthenTec Fingerprint Device** and then click the **Next** button.

5 The fingerprint registration begins. Select the finger to be registered and click the **Next** button.

6 Register the fingerprint by placing your finger over the fingerprint identification sensor and placing it down slowly. Repeat this at least 3 times until the next screen appears automatically.

7 Place the registered finger over the fingerprint identification sensor again and click the **Next** button.

8 A window appears asking if you want to register an additional fingerprint. Click **No** to proceed to the next window.
If you click **Yes**, Steps 4~7 are repeated.

9 Proceed with the settings and click the **Next** button.

10 When the user profile backup instruction window appears, read the contents and click on **Current Backup**.
Specify a path to save the user profile to and save the name. When the backup file password window appears, enter a password and click the **OK** button.

What is a user profile backup?
This is a function for backing up the OmniPass information (fingerprint and user account information) registered on a computer so that the information can be used on another computer. For information on how to use a backed up user profile on another computer, refer to the Help section.

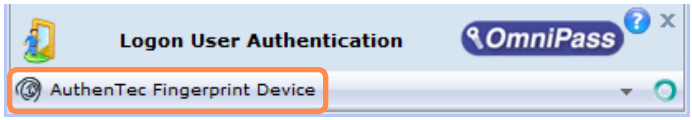
11 Click **Finish**. Registering information for using the fingerprint identification and integrated password authentication functions has been completed.

Logging onto Windows

1 If you turn the computer on after completing the user information registration step, the Logon Authentication window appears.

(To use the fingerprint identification function)

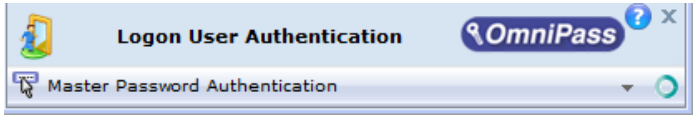
In the **Logon Authentication** window, select **AuthenTec Fingerprint Driver**, place your finger over the fingerprint identification sensor and place it down slowly.

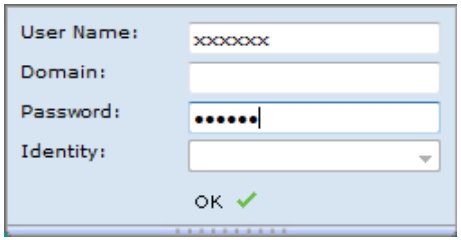


If your fingerprint is not recognized, the fingerprint is displayed in red in the fingerprint display window. In this case, place your finger over the fingerprint identification sensor again and push it down slowly until the fingerprint is displayed in green.

(To use the integrated password authentication function)

In the **Logon Authentication** window, select **Integrated Password Authentication**. Enter the username and the login password and click the **OK** button.





User Name: User account name
Password : User account password
Domain, ID: These fields are automatically entered.

2 When the fingerprint identification or password authentication is complete, you can logon to Windows.

Encrypting/Decrypting Files

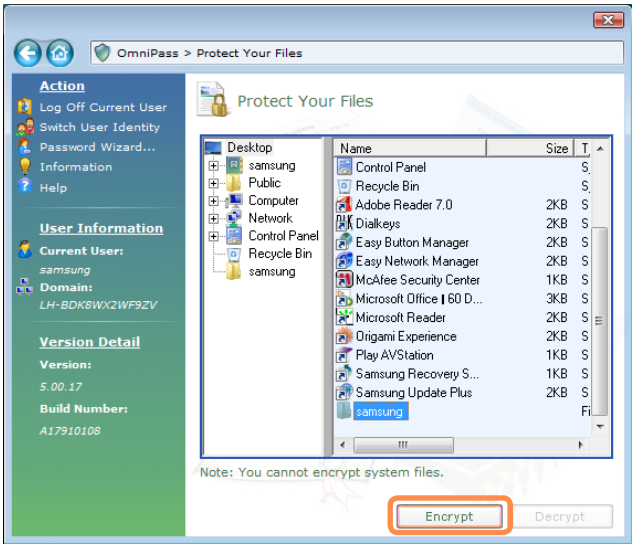
You can encrypt folders and files so that only specified users can open or modify them.

The procedures to encrypt files are described below.

This function is applied to some models only.

1 Select **Start > All Programs > Omnipass > OmniPass Control Center > File Protection**.

2 Select a folder or file to be encrypted and click **Encrypt**.



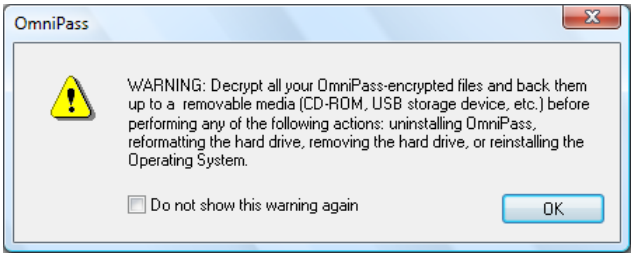
To decrypt encrypted folders and files

The procedures are the same as those for the encryption process except for selecting **Decrypt** instead of **Encrypt** in the figure above.

3 When the file encryption authentication window appears, select **AuthenTec Fingerprint Driver**, place your finger over the fingerprint identification sensor and push it down slowly. Alternatively, select Integrated Password Authentication and enter the login password.

If your fingerprint is not recognized, the fingerprint is displayed in red in the fingerprint display window. In this case, place your finger over the fingerprint identification sensor again and push it down slowly until the fingerprint is displayed in green.

4 If the fingerprint is recognized, the following window appears. Click OK to **encrypt** the file.


OmniPass
WARNING: Decrypt all your OmniPass-encrypted files and back them up to a removable media (CD-ROM, USB storage device, etc.) before performing any of the following actions: uninstalling OmniPass, reformatting the hard drive, removing the hard drive, or reinstalling the Operating System.
Do not show this warning again
OK

Right-click over a folder or file to be encrypted and select **OmniPass Encrypt File(s)** from the pop-up menu. The selected folder or file will be encrypted.

Logging into Internet Sites

You can easily login to frequently used Internet sites using the fingerprint identification or password authentication functions instead of entering your user ID and password.

As an example, the procedures for logging into the Hotmail site are described below.

The following describes the procedures for registering your user ID and password. Once the user ID and password of a site are registered, you can login to the site automatically.

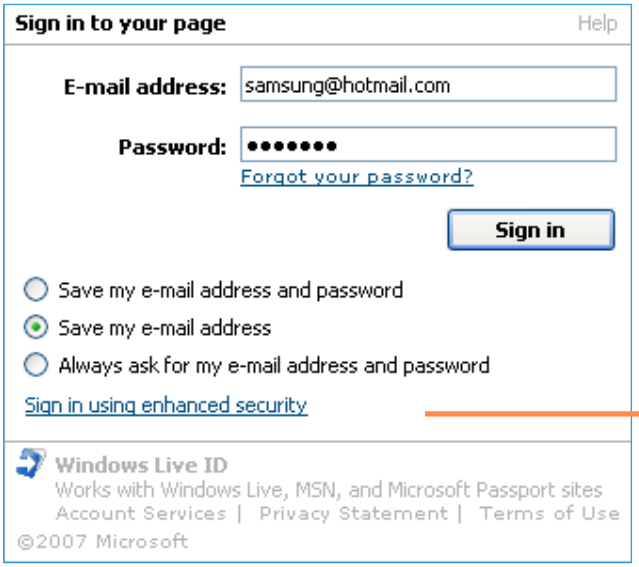
- This function is applied to some models only.
- This function may not be supported for some Internet sites.

1 Launch Internet Explorer ( ) and open the Hotmail site. (http://www.hotmail.com)

Enter your user ID and password.

2 Right-click over the ( ) icon in the Taskbar and click on **Save Password**.

3 When the mouse pointer changes to a yellow key icon (), click the login window, but not the Sign in button. If you wait a moment, the mail address and password information are retrieved.


Sign in to your page
Help
E-mail address:
samsung@hotmail.com
Password:
Forgot your password?
Sign in
Save my e-mail address and password
Save my e-mail address
Always ask for my e-mail address and password
Sign in using enhanced security
Windows Live ID
Works with Windows Live, MSN, and Microsoft Passport sites
Account Services | Privacy Statement | Terms of Use
©2007 Microsoft

Login Window

4 Enter an easy to remember name and click **Finish**.

5 Thereafter you can login to your registered websites using your fingerprint or password.

❶ When opening a registered site, the **Access Authentication** window appears.

❷ Select **AuthenTec Fingerprint Device**, place your finger over the fingerprint identification sensor and push it down slowly once. Alternatively, select Integrated Password Authentication and enter the login password.

❸ If the fingerprint identification or password authentication is complete, your ID and password are automatically entered and you are logged into the website.

Using Samsung Magic Doctor (Optional)

Magic Doctor is troubleshooting software provided by Samsung Computer. A user can diagnose system problems via one-click or by selecting diagnostic items.

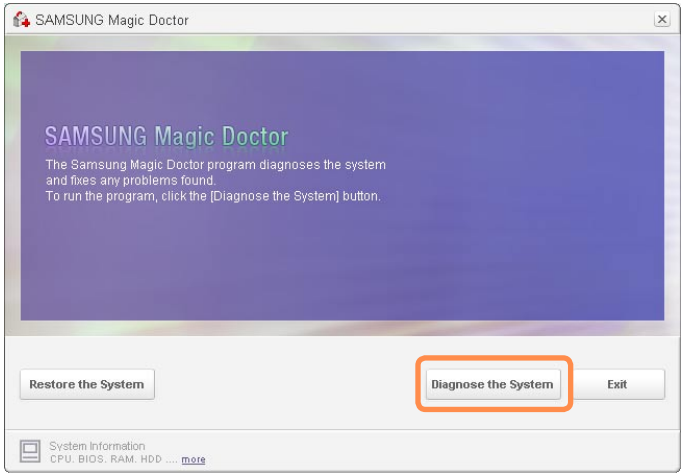
The screens used in this manual may differ from actual screens according to the program version.

Diagnosing the System

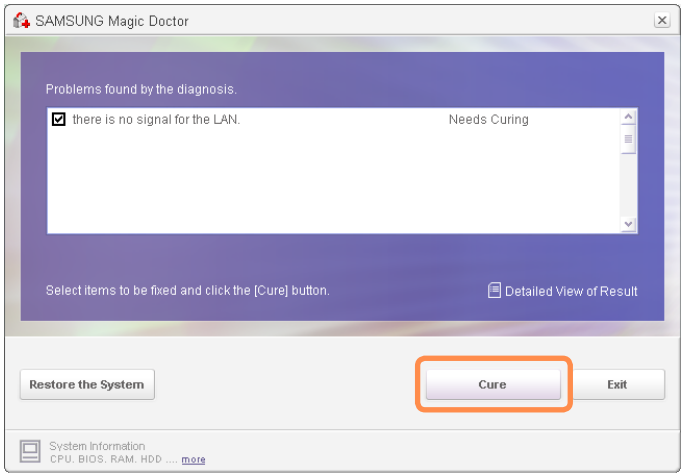
Diagnosing the System is a function to check system connections and diagnose problems affecting to system operation and solve it.

1 Click **Start > All Programs > Samsung > Samsung Magic Doctor > Samsung Magic Doctor**.

2 Click on **Diagnose the System** to start diagnosing the system.


SAMSUNG Magic Doctor
SAMSUNG Magic Doctor
The Samsung Magic Doctor program diagnoses the system and fixes any problems found.
To run the program, click the [Diagnose the System] button.
Restore the System
Diagnose the System
Exit
System Information
CPU, BIOS, RAM, HDD .... more

3 When the system diagnosis is completed, the diagnostic result appears.


SAMSUNG Magic Doctor
Problems found by the diagnosis.
there is no signal for the LAN.
Needs Curing
Select items to be fixed and click the [Cure] button.
Detailed View of Result
Restore the System
Cure
Exit
System Information
CPU, BIOS, RAM, HDD .... more

If problems are found, click the **Cure** button to correct the problem. Samsung Magic Doctor starts the corrective operations.

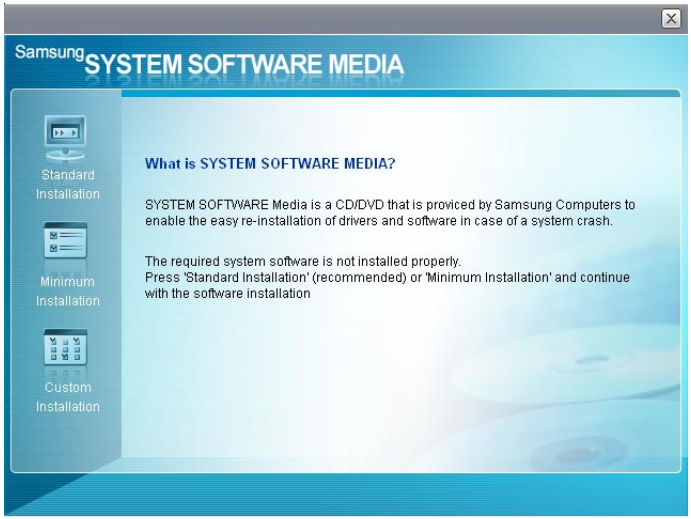
Reinstalling Software

You can reinstall software using the System Software Media, when a device driver or computer application is not working properly.

- When software is not working properly, it is recommended removing the software using the Add or Remove Programs of the Control Panel and reinstalling the software using the System Software Media.
- The System Software Media in the text is supplied as a CD or DVD depending on your computer model.
- To use the system software media, **the external USB ODD must be connected** to the computer. The following descriptions presuppose that the external USB ODD is connected.

Running the System Software Media

Insert the **System Software Media** into the external USB ODD. The initial screen appears automatically.


Samsung
SYSTEM SOFTWARE MEDIA
Standard Installation
Minimum Installation
Custom Installation
What is SYSTEM SOFTWARE MEDIA?
SYSTEM SOFTWARE Media is a CD/DVD that is proviced by Samsung Computers to enable the easy re-installation of drivers and software in case of a system crash.
The required system software is not installed properly.
Press 'Standard Installation' (recommended) or 'Minimum Installation' and continue with the software installation

►Standard Installation

If you select this option, programs not currently installed on the computer are listed.
You can conveniently use this option, when installing all the programs on the media after reinstalling Windows.

►Minimum Installation

If you select this option, programs are listed that need to be installed on the computer (drivers, Windows updates, etc.).
You can conveniently use this option, when you need to install essential programs only.

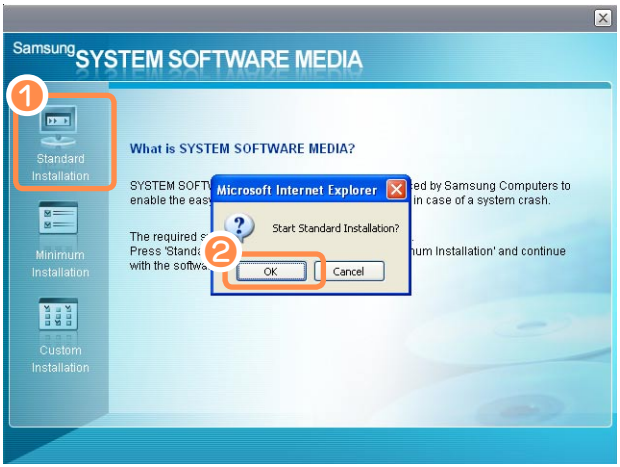
►**Custom Installation**

If you select this option, you can select the programs to be installed.
You can conveniently use this option, when you need to install an individual driver or program that is causing a problem.

Installing Software

As an example, the installation procedures for the **Standard Installation** options are described below.

1 Select **Standard Installation** in the **System Software Media** main screen.



2 If the **Start Standard Installation** window appears, click the **OK** button. The drivers and programs, which were installed in the computer when you purchased the computer, are installed again.

3 When done, restart the system.

Samsung Recovery Solution (Optional)

For models with a hard disk drive of 60GB or less, Samsung Recovery Solution supports the Basic Restore and Complete Restore functions except for the Backup functions.

What is Samsung Recovery Solution?

Samsung Recovery Solution enables you to easily restore your hard disk drive to a previous state when a problem occurs with your computer.

Samsung Recovery Solution Functions

Samsung Recovery Solution provides the following functions.

Function		Description
Restore	**Basic Restore**	This function restores major Windows files without touching the user configuration and data when a problem occurs with the computer. It restores the files over a short time (2~3 minutes).
	Complete Restore	Using this function, you can restore your computer's hard disk drive to its initial status when your computer is no longer working properly. You can use this function even if no restoration point was saved. A Complete Restore will delete all data on drive C. Therefore, make sure to backup your data to another storage device before restoring it to the initial status.
Backup	**Factory Status Backup**	This function saves the factory status image of drive C as a compressed image in a secure area. The factory status is automatically backed up after the computer is purchased so that users can restore the computer to the factory status.

Backup	**User Backup**	This function saves the image of drive C to drive D at a user's specified time. If a user has backed up the disk image using User Backup, the user can restore the computer to the backup image using Complete Restore. Example) You can backup the disk image after installing a favorite game or MS Office.

The function for the right case!

► **I cannot start Windows!**
(The booting file is missing or a corrupted error message appears.)

This happens when Windows files are corrupted.

In this case, use the **Basic Restore** function of **Restore**. If the problem continues even after a Basic Restore is performed, use the **Complete Restore** function.

► **The boot time increases, the system crashes and errors occur frequently!**

In this case, use the **Basic Restore** function of **Restore**. If the problem continues even after a Basic Restore, use the **Complete Restore** function.

► **I want to reinstall Windows only, without touching my documents!**

In this case, use the **Basic Restore** function of **Restore**. It overwrites Windows and system files only.

Restoring Your Computer

Samsung Recovery Solution operates as follows when the computer is used for the first time. You have to create a backup of the factory status according to the following procedures immediately after purchasing the computer to use the restoration function.

The overall procedures will be described here. For more detailed information on steps 3, 4 and 5, see p.167.

Setting Up Procedures	
❶ **Turn on the power for the first time.**	Turn on the power for the first time after purchasing the computer.
❷ **Register Windows.**	If you turn the power on for the first time, the Register Windows screen appears. If you register Windows according to the instructions on the screen, the computer will be restarted.
❸ **The Partitioning hard disk drive function is automatically launched.**	When the computer is restarted, the partition disk screen appears for the efficient use of disk space. ! The partition disk function is only available when turning the computer on for the first time and will not be available thereafter. Once you have completed the partitions, you cannot resize the partitions. Therefore partition the disk carefully.
❹ **Samsung Recovery Solution is automatically launched - Factory Status Backup.**	When the partitioning is complete, a screen appears which allows you to backup the factory status of drive C to drive D. This is a required step for backing up the factory status of drive C for the normal operation of Samsung Recovery Solution.

	This backup image is used for the Complete Restore function that restores your computer to its factory status when the computer is not working properly. For the backup procedures, refer to page 166.
❺ **After 3 days, backup the hard disk, if necessary. (p.168)**	3 days after the Factory Status Backup, a message appears asking if you want to backup the current status of drive C. The current image of drive C is saved to drive D and the last user backup image is removed.

Backup Function

This function saves the image of drive C to drive D. If you backed up the disk image, you can easily restore the computer to the backup image when Windows does not work properly.

The backup function provides **Factory Status Backup** and **User Backup** functions. Therefore, there are 2 backup images available (Factory Status Backup and User Backup) for the restoration function.

Factory Status Backup

If you turn your computer on for the first time, the Factory Status Backup function is performed after registering Windows.

This function saves the factory status image of drive C to a secure area so that users can restore the computer to the factory status using the Complete Restoration function.

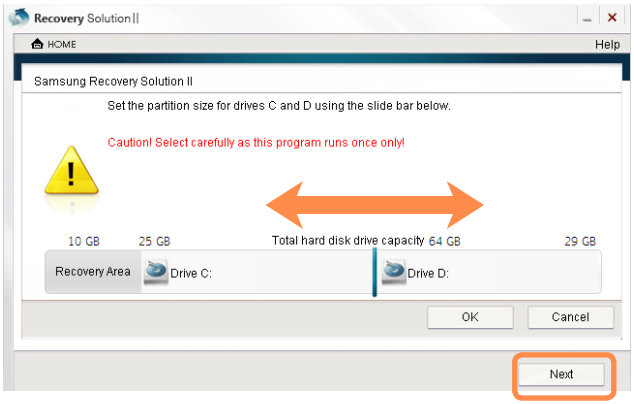
Factory Status Backup is only performed once after the computer is purchased.

1 If you turn the power on for the first time, the Register Windows screen appears.
If you register Windows according to the instructions on the screen, the computer will be restarted for the **Factory Status Backup**.

2 When the computer is restarted, the partition disk screen appears before proceeding with the **Factory Status Backup**. Read the instructions on the screen carefully and click the **Next** button.

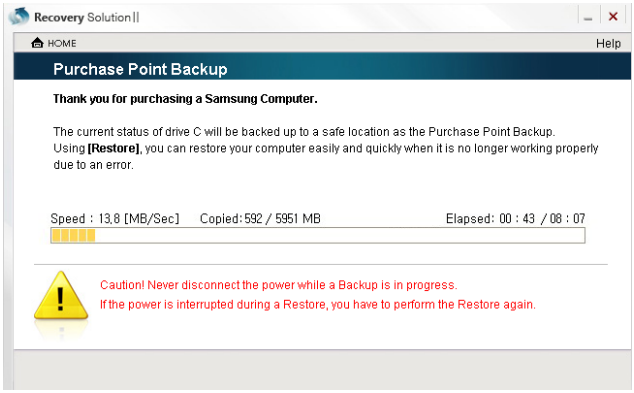
The partition disk function is only available when the computer is turned on for the first time and will not be available afterwards.

3 Partition your disk into drives C and D. Adjust the partition size using the slide bar and click the **Next** button.



Once you have completed the partitions, you cannot resize the partitions. Therefore partition the disk carefully.

4 When the partitioning is complete, the Factory Status Backup is performed to backup the factory status of drive C to a secure place.


Recovery Solution II
HOME
Help
Purchase Point Backup
Thank you for purchasing a Samsung Computer.
The current status of drive C will be backed up to a safe location as the Purchase Point Backup.
Using [Restore], you can restore your computer easily and quickly when it is no longer working properly due to an error.
Speed : 13.8 [MB/Sec]
Copied: 592 / 5951 MB
Elapsed: 00 : 43 / 08 : 07
Caution! Never disconnect the power while a Backup is in progress.
If the power is interrupted during a Restore, you have to perform the Restore again.

This backup image is used for the Complete Restore function that restores your computer to the factory status when the computer is not working properly.

5 When the Partition and Factory Status Backup is complete, restart Windows.

User Backup

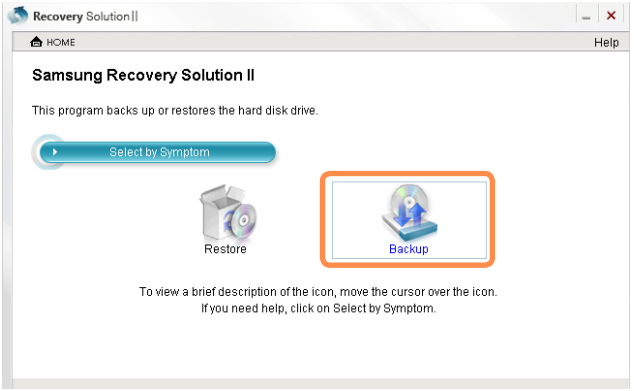
This function saves the image of drive C to drive D at a time specified by the user. You can backup and maintain only one copy of a User Backup image.

Since the backup image is saved on drive D, if drive D is formatted or the drive D partition is deleted, the backup image is also deleted so that you will not be able to restore the computer with the backup image.

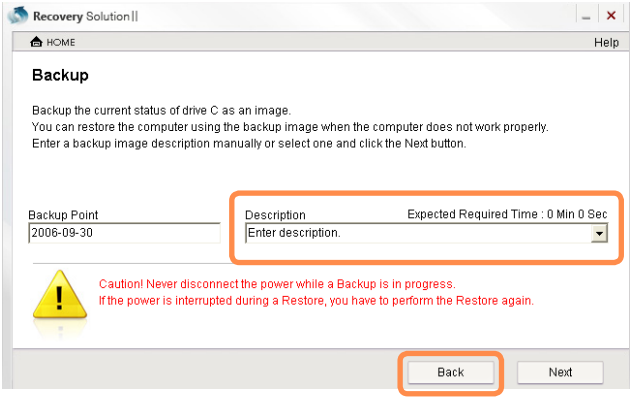
1 Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.

When you cannot start Windows
Turn the computer on and press the **F4** or **F7** key when the boot screen (SAMSUNG logo) appears. (If you press the key multiple times, the Windows Boot Manager screen may appear. In this case, press Enter.)
After a while, the computer boots up in Restoration mode displaying the SAMSUNG Recovery Solution screen.

2 If the initial menu screen appears, click **Backup**.
A description of the backup will be displayed on the screen.


Recovery Solution II
HOME
Help
Samsung Recovery Solution II
This program backs up or restores the hard disk drive.
Select by Symptom
Restore
Backup
To view a brief description of the icon, move the cursor over the icon.
If you need help, click on Select by Symptom.

3 Enter a brief description for this backup in the Description input box and click the **Next** button. The computer is restarted in restoration mode.


Recovery Solution II
HOME
Help
Backup
Backup the current status of drive C as an image.
You can restore the computer using the backup image when the computer does not work properly.
Enter a backup image description manually or select one and click the Next button.
Backup Point
2006-09-30
Description
Expected Required Time : 0 Min 0 Sec
Enter description.
Caution! Never disconnect the power while a Backup is in progress.
If the power is interrupted during a Restore, you have to perform the Restore again.
Back
Next

If the Samsung Recovery Solution program is launched for the first time after purchasing the computer, the license agreement screen appears before starting the backup. Read the agreement and click **Agree** to continue.

4 Select drive D to save the backup file.

5 When the backup is complete and the system restart message appears, click **OK** to restart the system.

When the backup is complete, a Samsung Recovery folder is created on drive D and the backup disk image is saved in the folder.
This image is used for the Complete Restoration function when the computer is not working properly.

Restoration Function

When your computer does not work properly due to a problem with the computer, you can restore the computer a previous stable condition using Samsung Recovery Solution. Samsung Recovery Solution provides Basic Restore and Complete Restore functions.

What is Basic Restore?

This function restores major Windows files without touching the user configuration and data when a problem occurs with the computer.

What is Complete Restore?

This function restores your computer using the Factory Status Backup or User Backup image when the computer does not work properly. However, note that the Complete Restore function will delete all data on drive C.

If the problem continues even after the above Basic Restore function has been performed, a Complete Restore is recommended.

Restoring Your Computer

1 Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.

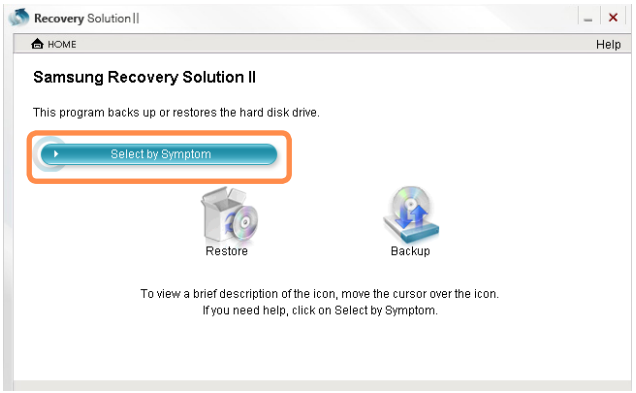
When you cannot start Windows

Since you can use it only when an external keyboard is connected, connect an external keyboard before turning the computer on. If you connect a USB keyboard during the installation, the system will not recognize the keyboard.

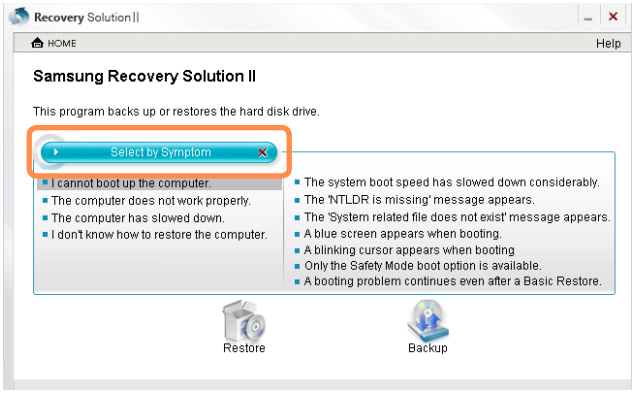
Turn the computer on and press the **F4** or **F7** key when the boot screen (SAMSUNG logo) appears. (If you press the key multiple times, the Windows Boot Manager screen may appear. In this case, press Enter.) After a while, the computer boots up in Restoration mode displaying the SAMSUNG Recovery Solution screen.

If the Samsung Recovery Solution program is launched for the first time after purchasing the computer, the license agreement screen appears before starting the restoration. Read the agreement and click **Agree** to continue.

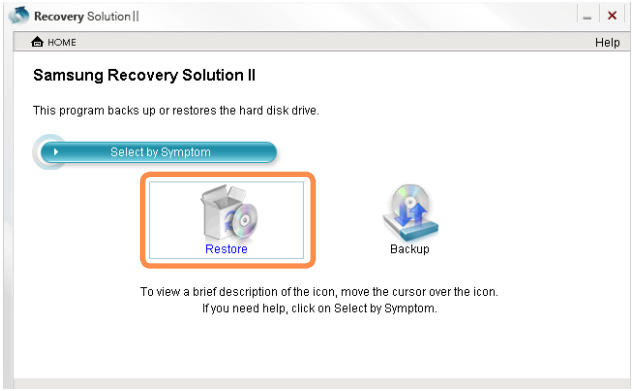
2 If the initial menu screen appears, click **Select by Symptom**.


Recovery Solution II
HOME
Help
Samsung Recovery Solution II
This program backs up or restores the hard disk drive.
Select by Symptom
Restore
Backup
To view a brief description of the icon, move the cursor over the icon.
If you need help, click on Select by Symptom.

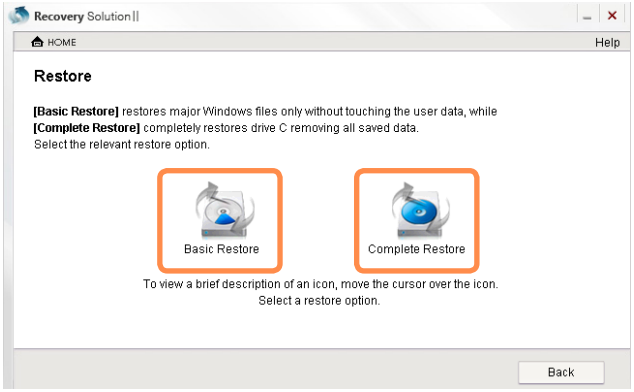
If you select a symptom, Samsung Recovery Solution will display the recommended restoration menu.


Recovery Solution II
HOME
Help
Samsung Recovery Solution II
This program backs up or restores the hard disk drive.
Select by Symptom
I cannot boot up the computer.
The computer does not work properly.
The computer has slowed down.
I don't know how to restore the computer.
The system boot speed has slowed down considerably.
The 'NTLDR is missing' message appears.
The 'System related file does not exist' message appears.
A blue screen appears when booting.
A blinking cursor appears when booting.
Only the Safety Mode boot option is available.
A booting problem continues even after a Basic Restore.
Restore
Backup

3 If you fail to find your symptom using Select by Symptom, close the Select by Symptom screen and click **Restore** from the main menu.


Recovery Solution II
HOME
Help
Samsung Recovery Solution II
This program backs up or restores the hard disk drive.
Select by Symptom
Restore
Backup
To view a brief description of the icon, move the cursor over the icon.
If you need help, click on Select by Symptom.

4 Select either **Basic Restore** or **Complete Restore** from the Restoration menu.


Recovery Solution II
HOME
Help
Restore
[Basic Restore] restores major Windows files only without touching the user data, while
[Complete Restore] completely restores drive C removing all saved data.
Select the relevant restore option.
Basic Restore
Complete Restore
To view a brief description of an icon, move the cursor over the icon.
Select a restore option.
Back

5 If you have selected **Basic Restore**, and you click the **Next** button, the system is restarted and boots up in restoration mode.If you have selected **Complete Restore**, select a restoration point, and then click the **Next** button.

The system is restarted in restoration mode.

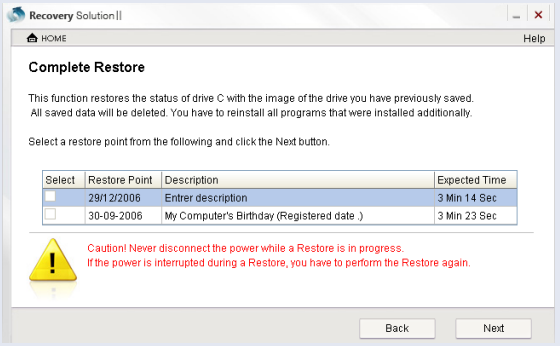
The first time the computer boots up after a Complete Restore has been performed, the boot speed may slow down due to the system optimization process.

Available restoration points for the Complete Restore function

In the Complete Restoration function, you can select either **Factory Status Backup** or **User Backup**. If you have not created a User Backup, you cannot select **User Backup**.

When the computer boots up in restoration mode, the restoration progress message appears. If you click **OK**,

the restoration is performed. When the ‘Restart the System’ message appears after the restoration is complete, click **OK** to restart the system.


Recovery Solution II
HOME
Help
Complete Restore
This function restores the status of drive C with the image of the drive you have previously saved.
All saved data will be deleted. You have to reinstall all programs that were installed additionally.
Select a restore point from the following and click the Next button.
Select
Restore Point
Description
Expected Time
29/12/2006
Entrer description
3 Min 14 Sec
30-09-2006
My Computer's Birthday (Registered date .)
3 Min 23 Sec
Caution! Never disconnect the power while a Restore is in progress.
If the power is interrupted during a Restore, you have to perform the Restore again.
Back
Next

Removing Recovery Solution

If you do not need or use Samsung Recovery Solution, you can remove the Recovery Solution program.

►Removing the Samsung Recovery Solution Program

Even if you remove the Samsung Recovery Solution program, only the program is removed leaving the restoration area on the disk unchanged.

Therefore you can use the Backup, Restore and Install functions by pressing the F4 or F7 key while booting up even after the Samsung Recovery Solution program is removed.

1 Click **Start > Control Panel > Add or Remove Programs**.

2 Select Samsung Recovery Solution and click the **Change/Remove** button. Then the Samsung Recovery Solution program will be removed.

Chapter 6.
Settings

BIOS Setup 156
Setting a Boot Password 161
Changing the Boot Priority 164
Battery 165

BIOS Setup

The BIOS Setup enables you to configure your computer hardware according to your needs.

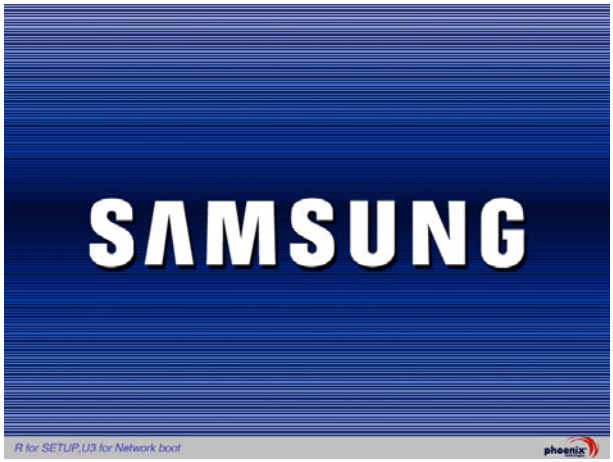
- Use the BIOS setup to define a boot password, change the booting priority, or add a new device.
  Since incorrect settings may cause your system to malfunction or crash, take care when configuring the BIOS.
- The functions of the BIOS setup are subject to change for product function enhancement purposes.

The BIOS Setup menus and items may differ depending on your computer model.

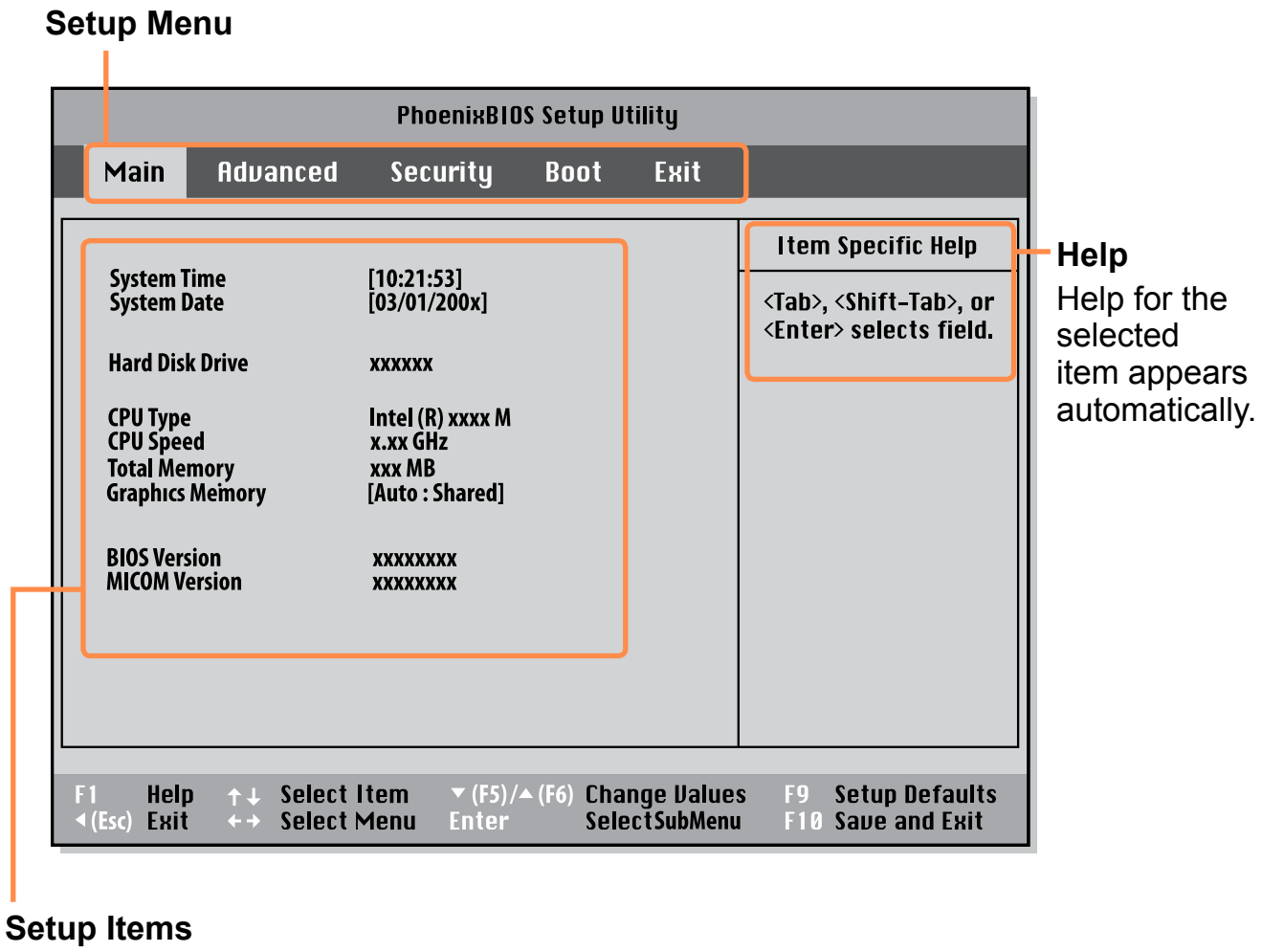
Entering the BIOS Setup

1 Slide the **Power Switch** down. The computer is turned on.

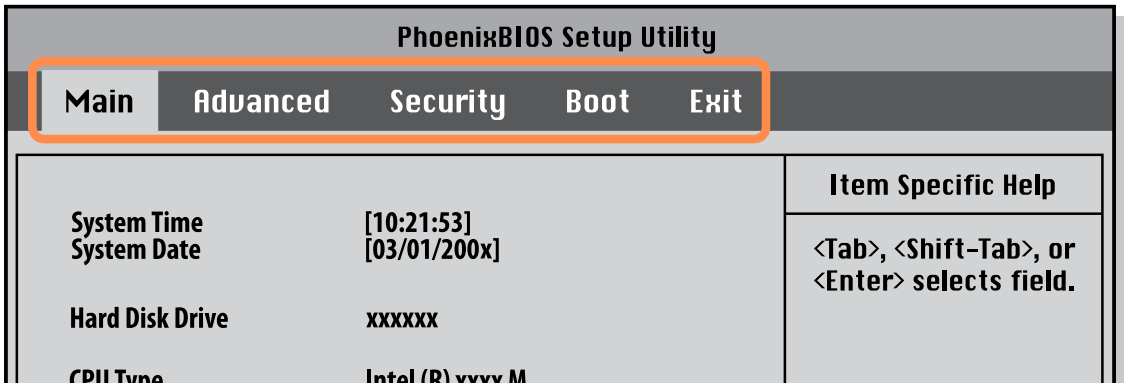
2 The booting screen (SAMSUNG logo) appears. Press the **R button** (R) on the right side of the computer. When an external keyboard is connected, press the **F2** key.



3 After a moment, the BIOS setup screen appears.
The items in the BIOS setup may differ depending on the product.



The BIOS Setup Screen



Menu	Description
Main	Used to change the basic system and environment settings.
Advanced	Used to configure advanced functions on your computer around devices and chipsets.
Security	Used to configure security functions, including passwords.
Boot	Used to set the boot priority and other boot options
Exit	Used to exit the Setup either saving the changes or not.

System Setup Buttons (Keys)

The following Buttons(keys) are used in System Setup.

When an external keyboard is connected, you can use the key enclosed in parentheses. For example, press the **F1** key on the exernal keyboard instead of the **L button**.

Setup Key	Button	Function
L Button (F1 Key)		If you press the **L** button, Help appears. If you press it again, Help disappears.
Mouse/ Joystick Up & Down (↑ ↓ Keys)		If you push the **Mouse/Joystick** up or down, you can move up or down the item list.
Mouse/ Joystick Left & Right (← →Keys)		If you push the **Mouse/Joystick** left or right, you can move to another menu.
▼ (F5 Key) / ▲ (F6 Key)		Press the ▼ (F5) / ▲ (F6) buttons to change the value of an item.
◄ (Esc Key)		Press the ◄ button to return to a higher-level menu or to move to the **Exit** menu.

Enter Button (Enter Key)		Selects an item or opens a submenu.
(F9 Key)		To initialize the setup settings, press the **F9** key on the external keyboard. If an external keyboard is not connected, select **Exit > Load Setup Default** from the setup menu.
(F10 Key)		To save the changes press the **F10** key on the external keyboard. If an external keyboard is not connected, select **Exit > Exit Saving Changes** from the setup menu.

Exiting the System Setup

1. Move to **Exit** Menu **> Exit Saving Changes** by using the **Mouse/Joystick** and press the **Enter** button.
2. Select **Yes** and press the **Enter** button. The System Setup is closed and Windows is started.

Setting a Boot Password

When setting a password, you have to enter a password to use the computer or enter the BIOS Setup.

By configuring a password, you can restrict system access to authorized users only and protect data and files saved on the computer.

Do not lose or forget your password.
If you have forgotten your password, contact a Samsung service center. In this case, a service fee will be charged.
For the setup buttons, refer to the description of 'System Setup Buttons (Keys)'.
p159

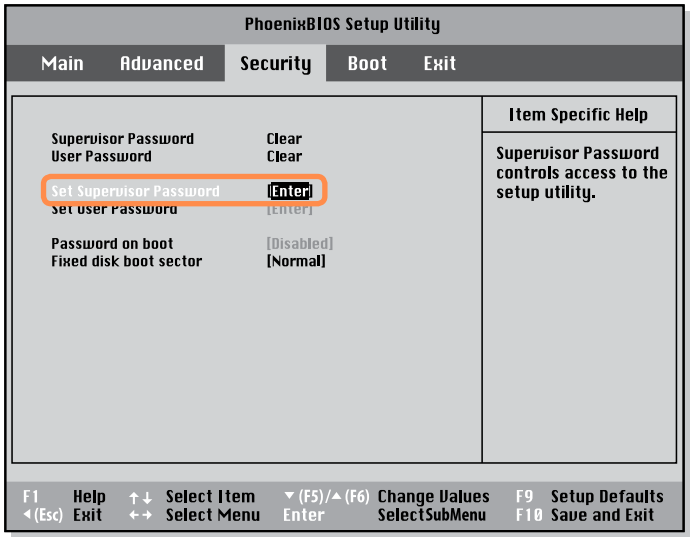
Setting a Supervisor Password

A Supervisor Password is required to turn the computer on or to start the System Setup.

When setting a Supervisor Password, users other than a supervisor cannot use the computer.

1 Select the **Security** menu in the BIOS Setup.

2 In the **Set Supervisor Password** item, press <**Enter**>.

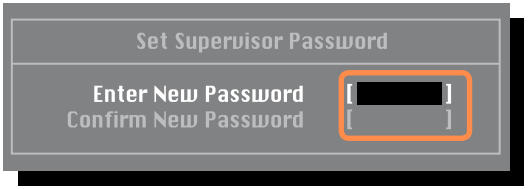


3 Enter the password with the keypad and press the **Enter** button. Reenter the password and press the **Enter** button.

You can use up to 7 alphanumeric characters for a password but you cannot use special characters.

The ← key on the keypad performs the role of Delete and the ◄ button performs the role of the Cancel (Esc) function.

To enter a number, press Num Lock and then enter the number.
If you do not press Num Lock, the characters of the corresponding keys are entered instead of digits.



4 When a message confirming the password configuration appears in the [**Setup Notice**] window, press <**Enter**>.

The supervisor password has been set. The supervisor password is required to turn the computer on or to enter System Setup.

Setting a User Password

Users can start the system with a user password, but cannot enter the System Setup. By doing this, you can prevent other users from entering Setup.

Before configuring a user password, a supervisor password must have been configured. Deactivating the supervisor password also deactivates the user password.

In the **Set User Password** item, press <**Enter**> and complete the procedures of Step 3 of Setting a Supervisor Password.

Activating the Booting Password

Before activating the booting password, a supervisor password must have been configured.

Set the **Password on boot** option to **Enabled**. From now on, system booting will not proceed without the password.

Deactivating the Password

1 On the password to be deactivated, press <**Enter**>. For example, to deactivate a supervisor password in the **Set Supervisor Password** item, press <**Enter**>.

2 In the **Enter Current Password** item, enter the current password and press <**Enter**>.

3 Leave the **Enter New Password** item field empty, and press <**Enter**>.

4 Leave the **Confirm New Password** field empty, and press <**Enter**>.

5 In the [**Setup Notice**] window, press <**Enter**>.

The password is deactivated.

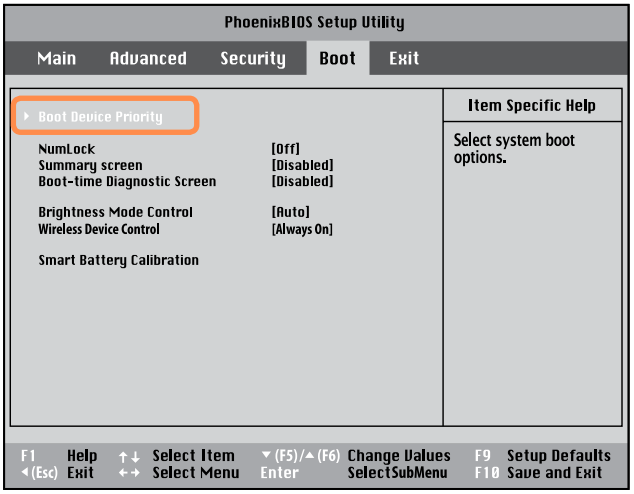
Changing the Boot Priority

The default boot priority of your computer is the CD-ROM first, then a removable device and then the hard disk drive in this order.

You can change the booting priority using the Boot menu of the System Setup. As an example, the procedures to change the highest boot priority device to the hard disk drive are described below.

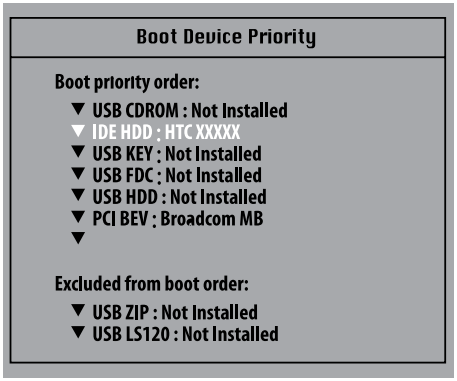
1 Select the **Boot** menu in the BIOS Setup.

2 Press <**Enter**> on the **Boot Device Priority** item.



3 Push the **Mouse/Joystick** down to move the booting device upwards.

Alternatively, you can move the booting device by using the ▲ or ▼ buttons.


Boot Device Priority
Boot priority order:
▼ USB CDROM : Not Installed
▼ IDE HDD : HTC XXXXX
▼ USB KEY : Not Installed
▼ USB FDC : Not Installed
▼ USB HDD : Not Installed
▼ PCI BEV : Broadcom MB
▼
Excluded from boot order:
▼ USB ZIP : Not Installed
▼ USB LS120 : Not Installed

4 Press the ◄ button to exit the **Boot** menu. Move to **Exit > Exit Saving Changes** by using the **Mouse/ Joystick** and press the **Enter** button. The changes are saved and Setup is closed.

Battery

Please refer to the following instructions when running the computer on battery power without connecting the AC power.

A Lithium-Ion smart battery is supplied with this computer.

Carefully read and follow the precautions printed on the battery before using the battery.

Precautions

Use only chargers specified in the User Guide.

Never heat the battery pack, put it near or in a fire or use at a temperature higher than 60°C, as this may cause fire.

Never cause a short circuit between the battery pack terminals or disassemble the battery pack.

Carefully read and follow the precautions printed on the battery and the safety instructions in the User Guide before using the battery.

Please refer to the system operation environment (p.196) of this guide. Operate and store the battery at room temperature.

Installing/Removing the Battery

1 Shutdown the system and place the computer upside down on a flat surface.

2 Lift the Stand up and push the Battery Latch down into the **Release** position.

Lift the battery up and separate it.

3 To reinstall the battery, align the battery to the outside of the computer and insert the battery.

Lift the battery latch up to the **Lock** (🔒) position and put the Stand down.

When you are unable to insert the battery, check if the battery latch is in the **Release** (🔓) position. If it is in the **Lock** (🔒) position, you cannot insert the battey.

Charging the Battery

1 Attach the battery and connect the AC adapter to the DC-in jack of the computer.

The battery will then start charging.

2 When charging is complete, the Charge LED turns green.

Status	Charge LED
Charging	Amber
Charging complete	Green
AC adapter not connected	Off

Measuring the Remaining Battery Charge

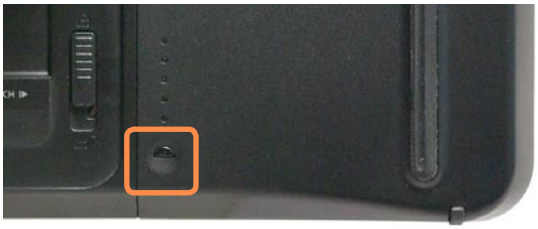
You can view the battery charge status by completing the following procedures.

Viewing through the MENU button

Press the **MENU** button and press on **Battery**.

To view on the battery

Press the button on the outside of the battery to check the remaining battery charge.



Battery Warning

- You will hear an alarm when the remaining battery charge reaches below 10%.
  In this case, connect the AC adapter or turn off the computer and install a fully charged battery.
- When the remaining battery charge is under 3%, the computer automatically saves the current work and turns off.

Battery Usage Time Information

A battery is an expendable supply, so when using it over a long time, the capacity/battery life is shortened. If the battery life is reduced to under half of its initial time, we recommend purchasing a new battery.

For long periods of not using the battery, keep the battery after discharging it. This extends the battery life time.

Extending the Battery Usage Time

Decreasing the LCD Brightness

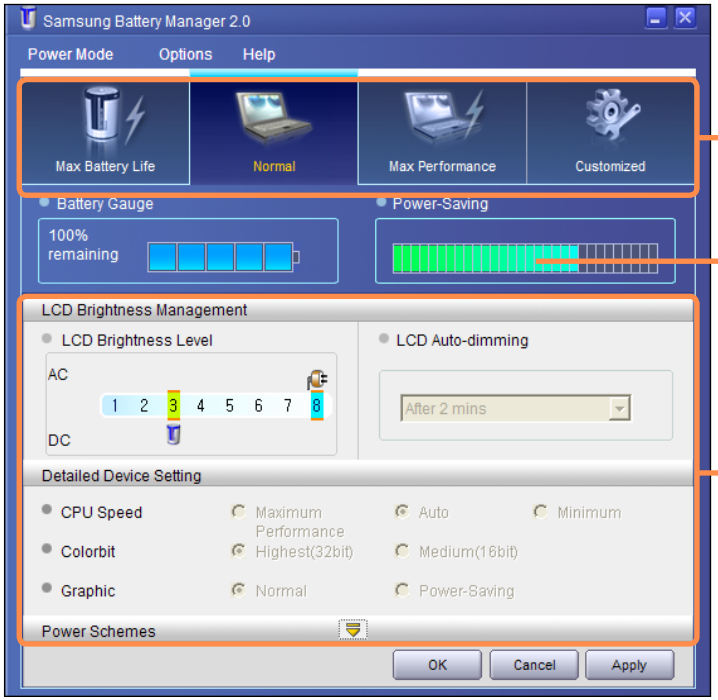
For the models with Touch Sensor buttons, press the **MENU** button and click ▽ from the **Brightness** item to decrease the LCD brightness. Then you can extend the battery usage time.

For models without Touch Sensor buttons, press the **User Defined button** (▼) while holding down the **INTERNET** button. The LCD brightness is decreased and you can extend the battery usage time.

Using Samsung Battery Manager

Samsung Battery Manager is a power management program that enables using the battery power efficiently. You can select an optimized power mode according to your requirements.

Click **Start > All Programs > Samsung > Samsung Battery Manager > Samsung Battery Manager**.



Change Power Mode

Power Saving Effects

You can only change the detailed configuration in Custom Mode.

Maximum Battery Saving Mode

This mode is appropriate for conditions which require the maximum battery usage time. This may degrade the performance of the system.

Normal Mode

This mode is appropriate for normal conditions. Both system performance and battery usage time are optimized.

Maximum Performance Mode

This mode is appropriate for conditions that require maximum system performance. Therefore, the battery usage time may be reduced in this mode.

Custom Mode

In this mode, you can configure the unit to save battery usage. You can adjust the LCD brightness, the system standby time, the screen color quality, and the graphics mode values.

Power Saving Effect

This shows the relative battery usage time for each power mode. The more effective the power saving, the longer the graph will appear.

When Running a Game or Multimedia Application

A game or multimedia application may not work smoothly in Maximum Battery Saving Mode. Using this is recommended when the AC adapter is connected or in Normal or higher modes.

Samsung Battery Manager Power Modes

- Since the Maximum Battery Saving Mode of the Samsung Battery Manager controls the system operating speed to extend the battery usage time, the performance of the system may be degraded.
- When changing the power settings in Custom Mode in the Samsung Battery Manager, the settings of the Power Options Properties window are changed accordingly.
- To use Normal Mode in Samsung Battery Manager after reinstalling Windows XP, you have to install the Samsung Battery Manager using the system software media.

Using the Battery Calibration Function

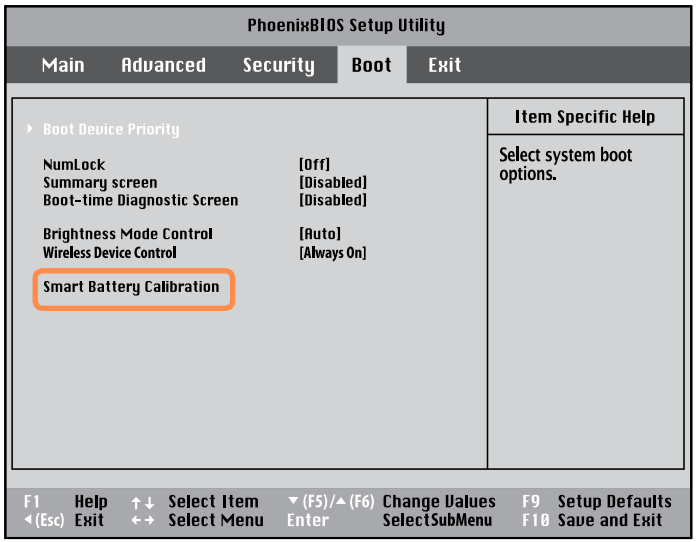
When charging/discharging the battery repeatedly for a short time only, the battery usage time may be reduced by the difference between the actual battery charge and the remaining charge display.

In this case, the actual battery charge and the remaining charge display will be the same by discharging the battery completely using the Battery Calibration function, and then recharging it again.

1 Disconnect the AC power adapter after turning off the computer.

2 Turn the computer on again. When the SAMSUNG logo appears, press the **R** button to enter Setup.

3 Using the arrow keys, select **Smart Battery Calibration** in the **Boot** menu and press **Enter**.



4 Highlight **Yes** in the Battery Calibration Confirmation window and press <**Enter**>.

The Battery Calibration function is activated and the battery is forcefully discharged. To stop the operation, press the ◀ (Esc) button.

This operation requires 3~5 hours depending on the battery capacity and the remaining battery charge.

Chapter 7.
Appendix

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Reinstalling Windows XP

You can reinstall Windows using the System Recovery Media when Windows does not work properly.

- **System Recovery Media** is optional and may not be provided depending on your computer model. These descriptions are only for models supplied with the **System Recovery Media**.
- There are two Windows installation modes: Standard Installation, which allows users to change options, and Quick Installation, which allows users to install Windows easily.
- To install Windows, an **external-type ODD** and a **USB keyboard** are required. Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.
- To reinstall Windows when Windows does not boot, refer to p.176.

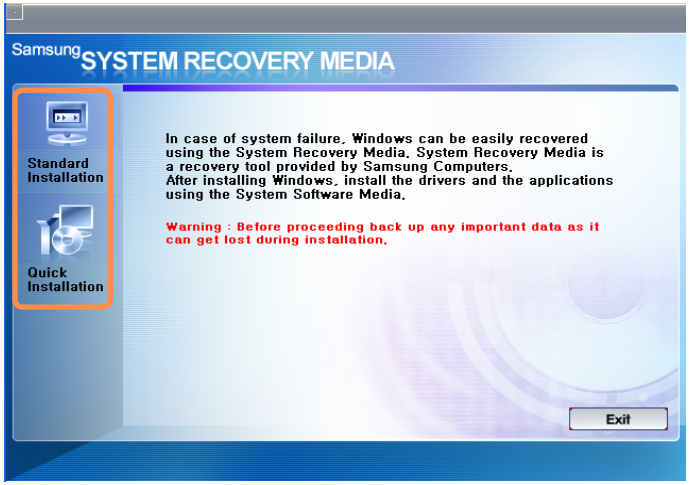
Reinstalling Windows may delete data (files and programs) saved on the hard disk drive. Make sure to backup all important data. Samsung Electronics shall not be held liable for any loss of data.

Running the System Recovery Media

- **Preparation**

1. Connect an external-type ODD through the **USB Port** of the computer.
2. Connect the **external-type USB keyboard**.
3. Turn the computer on to boot up Windows.

Insert the **System Recovery Media** into the external USB ODD. The start screen will appear automatically.


Samsung SYSTEM RECOVERY MEDIA
Standard Installation
Quick Installation
In case of system failure, Windows can be easily recovered using the System Recovery Media. System Recovery Media is a recovery tool provided by Samsung Computers.
After installing Windows, install the drivers and the applications using the System Software Media.
Warning : Before proceeding back up any important data as it can get lost during installation.
Exit

►**Standard Installation**

You can change the settings for Regional and Language Options, Date and Time, Computer Name, User Accounts, etc. during the Windows installation.

However, after reinstalling Windows, you have to manually reinstall device drivers and programs using the system software media.

►**Quick Installation**

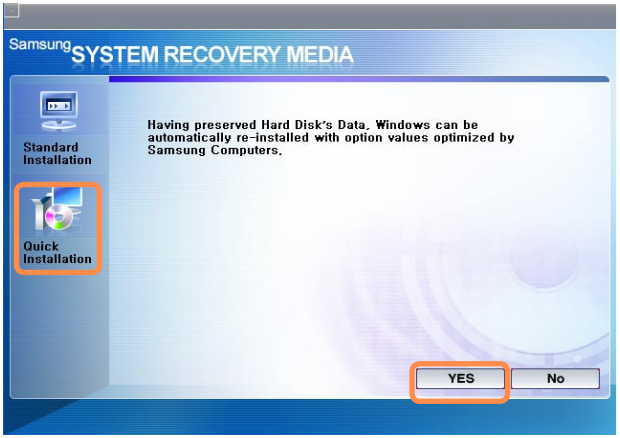
This reinstalls Windows with the user data and the system settings intact by overwriting the Windows folder.

Since the user data and the system settings in the already existing Windows folders are preserved, you do not have to reinstall device drivers and programs.

Quick Installation

The Windows Quick Installation procedures are described below.

1 In the **System Recovery Media** start screen, click **Quick Installation**.


Samsung SYSTEM RECOVERY MEDIA
Standard Installation
Quick Installation
Having preserved Hard Disk's Data, Windows can be automatically re-installed with option values optimized by Samsung Computers.
YES
No

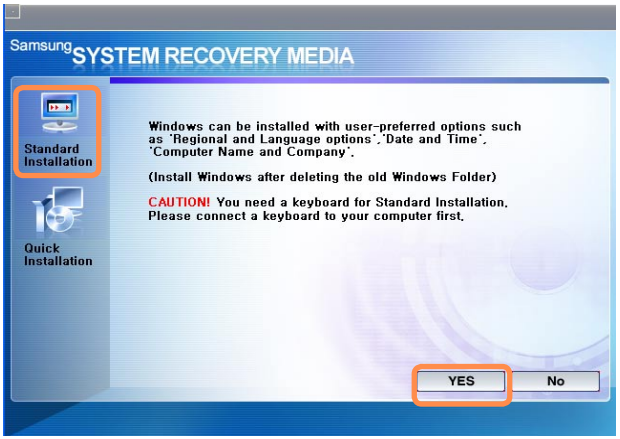
2 The description for the Quick Installation appears.
Click **Yes** to start Windows installation.
When the installation is complete, the Windows Desktop appears. Remove the **System Recovery Media** from the ODD.

Standard Installation

The Windows Standard Installation procedures are described below.

For the Standard Installation, a USB keyboard is necessary. You have to connect the USB keyboard before turning the computer on. The descriptions assume that you are using an external USB ODD and USB keyboard.

1 In the **System Recovery Media** start screen, click **Standard Installation**.


Samsung SYSTEM RECOVERY MEDIA
Standard Installation
Quick Installation
Windows can be installed with user-preferred options such as 'Regional and Language options', 'Date and Time', 'Computer Name and Company'.
(Install Windows after deleting the old Windows Folder)
CAUTION! You need a keyboard for Standard Installation. Please connect a keyboard to your computer first.
YES
No

2 The description for the Standard Installation appears.

Click **Yes** to start the Windows installation. The system restarts and the Windows installation begins.

If you have set a booting password, enter the booting password when booting the system to continue the installation.

3 After the system has restarted, the message '**Press any key to boot from DVD**' appears. Do not press any key at this time.

After a moment the partition configuration screen appears.

To leave the partition unchanged, move to the C:Partition 2 using the direction key (↓) and press <**Enter**>.

Partition setting is a function that divides the hard disk drive into one or several partitions. Note that changing the partition deletes all data on the hard disk drive.

4 Select the folder to install the Windows operating system.
To delete the previous version of Windows and install in the current folder, press <**L**> on the keyboard.

When pressing the <**ESC**> key to select another folder for the installation, a new Windows folder is created causing the risk of dual booting.

5 After the installation process copies the necessary folders for the Windows installation, restart the system, and the message "**Press any key to boot from DVD**" is displayed. You do not need to enter anything. The Windows XP installation screen will appear shortly to proceed with the installation.

6 When the **Regional and Language Options** window appears, click **Next**.

7 When a window that requires your name and organization pops up, enter your name and the organization and click **Next**.

A window that requires the computer name and the administrator password appears. Enter the computer name and the administrator password and click **Next**.

8 When the **Date and Time Settings** window appears, click **Next**. Setup continues and the system restarts.

9 When the system restarts, the message "**Press any key to boot from DVD**" is displayed. You do not need to enter anything. In a moment, the Windows XP Desktop appears. When you see the Windows desktop, this means that the installation process is completed.

10 Remove the **System Recovery Media** and install the device drivers and applications from the **System Software Media**. p.143

Reinstalling when Windows does not start

When Windows does not start, boot up with the **System Recovery Media** and from there you can reinstall Windows.

> Connect the **external-type ODD** and **USB keyboard** before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.

1 Insert the **System Recovery Media** into the DVD drive and restart the computer.

2 If the **Press any key to boot from DVD** message appears while booting, press any key on the keyboard.

3 The partition configuration screen will appear. To install Windows in the selected partition without change, press <**Enter**>.

4 Select a **file system** (format). To keep the current file system, press <**Enter**>.

5 Select the folder to install the Windows operating system.

To delete the previous version of Windows and install in the current folder, press <**L**> on the keyboard.

6 The subsequent procedures are the same as those after Step 5 of <**Standard Installation**>. p.174

Q & A

This section provides information on possible problems, solutions and other references for using the system.

Display Related

Q The LCD screen is too dark or too bright

A Adjust the LCD brightness. For the models with Touch Sensor buttons, press the **MENU** button and click on **Brightness** ▽ or △.

For models without Touch Sensor buttons, press the **User Defined buttons** (▲/▼) while holding down the **INTERNET** button.

Q The screen saver disturbs Media Player playing a movie or video clip after the screen saver is activated while Media Player is playing.

A Unselect **Tools > Options > Player > Allow screen saver during playback** in the Media Player.

Q In the following cases, the screen blinks or displays noise for a short time.

Click the Graphics Related tab, Change Resolution, Change Display Device, Remove the AC Adapter, Restart the System, Change Power Scheme.

A This may happen while the video driver is examining the connected device. While busy detecting, any connected display devices may blink or some noise may occur.

Q When I connect a projector, and change the settings to display the screen image on both the LCD and the projector by pressing the MENU button, the screen is not displayed properly.

A Press the **MENU** button and press the button to the right of the **LCD/CRT** button to switch to **LCD+CRT Clone**.
The screen may not be displayed or only part of the screen may be displayed when the LCD resolution is too low or too wide and the projector cannot support the resolution. Right-click over the Desktop, select **Properties**, select the **Settings** tab and change the Resolution to 800x600.

Q The shortcut icons are not displayed on the screen even if I press the shortcut key.

A The shortcut icons only appear when the Easy Display Manager program is installed.

Q I have connected a monitor (or projector) to the computer, but the colors on the monitor are abnormally displayed.

A Check if the monitor and computer are properly connected with the signal cable and reconnect the cable if necessary.

Q The picture on the screen trembles.

A The picture on the screen may tremble when you view some Internet pages or play some on-line games. In this case, using an external monitor is recommended.

Q I've run the Rotation function from the Menu, and the pointer on the screen does not correspond to the pointer position.

A It is recommended using an external USB mouse when the screen is pivoted.

If the above problem appears, complete the following steps.

❶ Right-click on the **TouchKit** ( ) icon from the Taskbar and confirm that the **Display Pivot Support** function is **selected** (V). If it is not selected, select it by selecting the **Display Pivot Function**.
If you cannot find the TouchKit icon on the Taskbar, click **Start > All Programs > TouchKit > TouchMon**.

❷ Click on **Start > All Programs > TouchKit > Configure Utility** and click on **4-Point Calibration** from the **Tools** tab. If the Stylus Pen Calibration screen appears, proceed according to the instructions on the screen.

Sound Related

Q How can I configure the Recording Mixer while I am video or audio chatting?

A ❶ Double-click the **volume** icon from the Taskbar and select **Options > Properties** from the menu.

❷ In the Mixer device field, select **Realtek HD Audio Input**.

❸ Unselect **'Mute all'** in the Recording control and unselect **'Mute'** in the Microphone volume.

❹ Select **'Mute'** in the Stereo Mixer.

Q How can I configure the Recording Mixer while playing music in WinAMP?

A ❶ Double-click the **Volume** icon in the Taskbar and click on **Options**.

❷ In the Mixer device field, select **Realtek HD Audio Input**.

❸ Unselect **'Mute all'** in the Recording control and unselect **'Mute'** in the Microphone volume.

❹ Select **'Mute'** in the Stereo Mixer.

Wired Network (LAN) Related

Q The <Wake On LAN> function

A <Wake On LAN> is a function that activates the system from Sleep mode when a signal (such as a ping or magic packet command) arrives over the network (wired LAN).

Using the <Wake On LAN> Function

❶ Click on **My Network Place > View network connections** on the Desktop.

❷ Right-click(press and hold the Stylus Pen for more than 3 seconds) the Local Area Connection and click **Properties**.

❸ Click **Configure**, and select the **Power Management** tab. Select 'Allow this device to bring the computer out of standby', then click OK. Restart the system.

- If the system in standby mode is activated when there is no received signal, use the system after disabling the <Wake On LAN> function.
- When turning the power off when <Wake On LAN> is disabled, the LAN LED may continue to be lit up.
- The <Wake On LAN> function operates only when the LAN is ON.
- Connecting a wired LAN while using a wireless LAN may not activate the <Wake On LAN> function. Set the Wireless LAN to 'Disable' to use the <Wake On LAN> function.

❶ Click on **My Network Place > View network connections** on the Desktop.

❷ Right-click(press and hold the Stylus Pen for more than 3 seconds) over **Wireless Network Connection** and select **Disable**.

Q When I am connected to a 100Mbps/1Gbps wired LAN and the computer exits Sleep/hibernation mode, a message appears informing you of a connection to a 10Mbps/100Mbps wired LAN.

A When the computer exits standby/hibernate mode, restoring the network takes about 3 seconds.
When the network is restored, it operates at 100Mbps/1Gbps.

Wireless Network (WLAN) Related

Q I cannot find an AP.

► **Check the Wireless LAN LED.**

A Check if the Wireless LAN LED is on. If off, click the **MENU** button and select **Wireless LAN ON** to turn the Wireless LAN on.

► **Reinstall the driver.**

A Reinstall the driver using the software media.

► **Check the Wireless Zero Configuration (WZC) service.**

A If the “Windows cannot make this wireless connection” message appears while searching for wireless networks, it indicates that a program other than Windows is set to manage the wireless LAN settings.

► **To use the wireless LAN settings using Windows:**

A ❶ Click **Start > Control Panel > Network and Internet Connections > Network Connections > Wireless LAN Connection**, right-click and check if the “Windows manages wireless network settings (W)” option is selected in the Wireless Network tab of the Properties window. If not, select the option.

❷ Click **Start > Control Panel > Performance and Maintenance > Administrative Tools > Computer Management** and click **Services and Applications > Services**. In the right pane, double-click the Wireless Zero Configuration and check if the Startup Type is Automatic and the Status is Started.

Q I cannot connect to an AP. (The wireless connection is disconnected frequently.)

► **Check the Network Key.**

A Right-click the **Wireless Network Connections icon** from the Taskbar and click

on '**View available wireless networks**'. If wireless networks are found, it indicates that the device is operating properly but the network settings may have a problem. Please check the Network Key (Encryption Key) and the AP settings.

► **Check if there is a device nearby using the same frequency band.**

A1 If there is a device nearby using the same frequency band such as another wireless LAN device, wireless video transceiver, microwave oven, plasma bulb, etc., channel interference may occur. If you experience interference from another device, it is recommended changing the AP channel.

A2 When operating in EEE802.11g mode, if there is a IEEE802.11b device operating nearby, you may experience low data rates or even disconnection as it operates in Hybrid mode.

► **Check the authentication type.**

A A connection may be disconnected after a period of time if the "Use IEEE 802.1x network authentication" option is selected when IEEE 802.1x authentication is not being used.

View the properties of the corresponding AP in the Wireless Network Properties. In the Authentication tab, unselect the "Use IEEE 802.1x authentication in this network" option.

For detailed information on the authentication server, ask your network administrator.

► **Check the AP settings.**

A1 Check if the surroundings are appropriate for a wireless LAN. A wireless LAN connection may be limited by the surrounding environment and distance. Obstacles such as walls and door mats affect the quality of the wireless LAN signal. You have to install an AP in a high, open position far away from any other radio signal sources. If the AP is excessively far away, or is installed at the end of a building and you are attempting to use the wireless LAN from the other end, you may not be able to use the wireless communication normally because the signal is blocked by obstacles between you and the AP (such as a wall).

A2 Check if the AP operates properly. If the AP is not operating properly, turn it off and on again and try again.

A3 Check if the AP firmware is the latest version. (For more information on the AP firmware, ask the AP manufacturer or your product provider.)

A4 Check if the AP is properly connected to the network. Connect the LAN cable from the AP to a computer and check if the network is connected properly.

A5 Check the Network Key (Encryption Key) settings again.

If the automatic password converting function (passphrase function) is enabled and the wireless connection is normal but you cannot send data over the connection, please enter the Network Key (Encryption Key) manually.

A6 Check the AP settings as follows.

If there are multiple APs running at the same time, check the channel setting of each AP. If the interval between the channels of the APs is narrow, you may experience electromagnetic interference. Set the channel numbers of the APs so that the internals between the channels are maximized. (E.g., Ch1, Ch5, Ch9, Ch13)

If the SSID option is set to Hide, you will not be able to find the AP on your computer. It is recommended unselecting the Hide option of the AP. SSID (Service Set ID) is a name used to distinguish a wireless LAN from other wireless LANs.

It is recommended using Long Preamble. Preamble is a signal for data transmission synchronization. Although some APs support Short Preamble, there might be a compatibility problem.

Because ‘Fixed’ channel selection is more stable then ‘Auto’ channel selection, ‘Fixed’ channel selection is recommended. It is recommended not using the ‘Block Any’ and ‘Any Connection Block’ functions. Although these functions block connections at the client side when the network name is Any or Blank, it may cause a compatibility problem.

For more information on the AP settings, refer to the owner’s manual supplied with the AP.

Q Although a connection has been established, I cannot connect to the Internet.

► **Check the TCP/IP settings.**

A If you cannot connect to the Internet but you are connected to an AP, check if the TCP/IP settings are configured properly.

When you are not connected to an AP, an X mark appears over the 'Wireless Network Connections' ( ) icon in the Taskbar. If you double-click the icon, the Search for Wireless Connections window appears. Reconnect to a wireless network referring to the descriptions of **Connecting to a Wireless LAN** in the Using the Network section.

When you are connected to an AP, an X mark appears over the 'Wireless Network Connections' ( ) icon in the Taskbar. Double-click the icon and check if the IP address is properly allocated on the Support tab. If the IP address is not properly allocated, the IP address will be displayed as follows; (e.g. 169.254.xxx.xxx).

If your network does not support DHCP, you have to manually configure an IP address by asking your network administrator.
In addition, even if your network supports DHCP, the Internet connection may not be available if the DHCP server fails to allocate an IP address to your computer.

Q I have configured both wired and wireless connections with the same IP address, but the network connections do not work properly.

A You cannot use the same IP address for wired and wireless connections. To use only one IP address for both wired and wireless connections, you must disable one of them according to your requirements in Network Connections in the Control Panel.

Q After installing the Wireless LAN Setting program, the “AEGIS Protocol (IEEE 802.1x)” protocol appears in the [Local Area Connect Properties] window.

A The protocol is a security authentication protocol that is automatically installed when the Wireless LAN Settings program is installed and does not affect the program operation.

Q I want to use the Wireless LAN power saving function to extend the system battery use time.

A You can configure this in the Samsung Battery Manager program. Run the Samsung Battery Manager and select **Options > Wireless LAN Power Saving > On** from the menu.

However, this setting may affect the performance of the Wireless LAN.

In addition, the wireless LAN connection might be disconnected while configuring this.

Q I cannot share Internet access/ files when a small office network has been set up.

A Check the McAfee SecurityCenter settings.

Launch McAfee SecurityCenter and select **Advanced > Settings > Internet and Network > Advanced > Trusted or Prohibited IP**.

Check if the IP address you wish to use has already been added. If the IP address is not added, add it by clicking the ‘**Add**’ button.

Q I cannot search another network on my network when a small office networking(Ad-hoc) has been configured.

A To search Ad-hoc in Windows XP SP3, you should set up the wireless network connection properties as follows.

❶ Click **START > Connect To > Wireless Network Connection > Change the order of preferred networks** under **Related Tasks** on the left.

❷ Select the network you want to configure and click **Properties**.

❸ Select **Connect even if this network is not broadcasting**.

❹ Move to the **Connection** tab, and select **Connect when this network is in range**.
When the settings are completed, click **OK**.

Bluetooth

Q The Korean or Chinese characters in a business card received via Bluetooth are broken.

A1 If you send a business card including Korean or Chinese characters by selecting a **Select a business card in the file (*.vcf, *.vcd)** option, the characters on the received card will be broken.

This is because the contents of the business card file are not set to Korean or Chinese characters (CHARSET). To resolve this problem, edit the contents of the business card file manually as follows.

❶ Right-click over a business card file (*.vcf, *.vcd) to be sent and select **Connect Program > Select Program**.

❷ Select **Notepad** from the program list.

❸ Edit the file as follows.

Example) “N:Magic Sens” => “**N;CHARSET=KS_C_5601:**Magic Sens”

For Korean, add “CHARSET=KS_C_5601”

For Chinese Simplified (CHS), add “CHARSET=gb2312”

For Chinese Traditional (CHT), add “CHARSET=Big5”

A2 Perform Send business card immediately in the Address Book of Microsoft Outlook or select Transmission by **Outlook business card selection**, and you will be able to transmit a business card without broken characters and without editing the VCF file.

Q When no headset is found or cannot be connected.

A1 If the headset is already connected to another device, you will not be able to find the headset and cannot connect to the headset even if the headset is found. Disconnect the connection to the other device and then start the search again.

A2 If the headset is connected to a power adapter, you cannot make a Bluetooth connection.
Disconnect the power adapter and then retry.

A3 In general, a Bluetooth headset has 2 operating modes, On/Off mode and Pairing mode.
To connect the headset to another Bluetooth device such as a PC or cell phone, the headset must be in Pairing mode.
Switch the headset to Pairing mode and then retry the search operation.
In general, the headset in Pairing mode automatically returns to On/Off mode after a certain period of time.

Q There is no sound or sound is intermittently interrupted after connecting a headset.

A1 If a Bluetooth headset is connected to a PC, the **Sound playback device** in the **Control Panel** is to be changed to **Bluetooth Audio** (for a mono headset) or **High Quality Bluetooth Audio** (for a stereo headset). If the **Sound playback device** in the **Control Panel** is not changed properly, there may be no sound through the headset. Check the audio settings of the **Control Panel** according to the procedures given below.

Configuring the Audio Device in the Control Panel

❶ Click **Start > Control Panel** and double-click on **Sound and Audio Devices**.

❷ Select the **Audio** tab in the Sound and Audio Devices Properties window.

❸ Check if the Sound playback device and the Sound recording device are set to Bluetooth Audio (for a mono headset) or High Quality Bluetooth Audio (for a stereo headset).

A2 When using a Bluetooth headset with another Bluetooth device, you may experience no sound, data transmission rate degradation, transmission errors or the disconnection of the device.

Therefore, it is recommended not using another Bluetooth device when using a Bluetooth headset.

A3 Check if the headset is properly connected and working properly.

A4 Check the volume level of the headset and PC.

A5 When running a multimedia program such as Windows Media Player that accesses the audio device, a headset may not be properly connected or used. To resolve this problem, exit the multimedia program, connect the headset and then launch the multimedia program again.

Game and Program Related

Q A 3D game does not work, or some functions are not working.

A Change the graphics settings of the game to '2D' or 'Software Renderer', then run the program again.

Q While playing a game, the screen may not be displayed or may be displayed abnormally when pressing the MENU button and then pressing the button to the right of the LCD/CRT button.

A Since the controls change for games and some 3D applications due to the system properties when the display device changes, pressing the MENU button and the button to the right of the LCD/CRT button while a program is running may cause the program to exit or cause the screen to be displayed abnormally.

Please use the button to the right of the LCD/CRT button before running a program. Using the button while a program is running is not recommended.

Q Running speed of a game is too slow or fast.

A Change the setting of the Power Schemes to '**Always On**'.

(Click the **Start > Control Panel > Performance and Maintenance > Power Options > Power Schemes** tab, then configure the Power schemes field to 'Always On'.)

Q The picture is not displayed properly for some games.

A Some games such as 'Harry Potter and the Sorcerer's Stone', 'Harry Potter and the Chamber of Secrets', etc. may not display the picture properly when the screen resolution is set to 1024x768 and the color quality is set to 32 bit.

For these games, set the screen resolution to 1024x768, and the color quality to 16 bit.

Q The game is not displayed smoothly on the screen.

A For 3D games, the texture data for the 3D screen display is saved to the system memory.

If there is insufficient system memory, the data is saved to the hard disk drive and loaded to memory when required. This operation may temporarily stop displaying the picture on the screen.

In this case, lower the game resolution or the screen settings.

Samsung Recovery Solution

Q After performing a User Backup, the 'Insufficient free space in the hard disk drive' message appears.

► **This message appears when there is insufficient free space for the User Backup.**

A If there is insufficient free space on the hard disk drive, the User Backup file cannot be saved.

For the User Backup, move or delete some files from the hard disk drive and then try again.

Q The hard disk drive capacity is different from the specifications.

A

- The hard disk drive capacity displayed in My Computer or Windows Explorer is calculated by regarding 1024 bytes as 1kbyte and is smaller then the actual capacity. This is just a difference from the calculation method and the capacity of the hard disk drive is the same as the specifications.
- If your computer model is supplied with a fingerprint identification or system diagnosis program, the hard disk drive capacity may be displayed smaller then it should be because the programs use some of the hard drive capacity.
- Since Samsung Recovery Solution is installed on your computer and it reserves approximately 10 GB to save the restoration image, the hard disk drive capacity will be smaller than the actual capacity in My Computer or Windows Explorer. The amount of hard disk drive space used by Samsung Recovery Solution may differ depending on the computer model.

You can check the actual hard disk drive capacity in the BIOS SETUP, by pressing the <**F2**> key while booting up the computer.

Other

Q I cannot run any functions.

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** blinks for a moment. Slide the HOLD switch downwards and try again.

A2 If the computer is running on battery power, check the battery charge status.

Q The [Power Switch] does not work.

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** blinks for a moment. Slide the HOLD switch downwards and try again.

A2 If the computer is running on battery power, check the battery charge status.

Q How can I install the program?

A You can additionally purchase and install the following devices for UMPC. (See the **Installing Programs** section of the 'Getting Started Guide'.

- **External USB ODD dedicated to UMPC or Compatible External USB ODD**
- **External USB HDD**
- **USB Data Cable**
- **LAN Cable** (direct cable or cross cable), etc. : Since the usage of a direct cable is the same as that of a cross cable, refer to the 'Getting Started Guide'.

Q I have turned the LCD screen off with a portable USB keyboard, but I cannot turn it on again.

A When you are using an optional **Portable USB Keyboard Dedicated to UMPC**, if you have turned the **Backlit OFF** (Screen Off) by pressing the <**Fn**>+<**F5**> keys, press the <**Fn**>+<**F5**> keys on the keyboard again to turn the **Backlit ON** (Screen On).

Q I want to replace the pointing stick cap of a portable USB keyboard.

A A portable USB keyboard has a pointing stick that can be used instead of a mouse. Since a spare pointing stick cap is supplied when you purchase a USB keyboard, you can remove the cap and then insert a new one if necessary.

Q The Touch Sensor Buttons do not work.

A1 Try to press a Touch Sensor Button with your finger and not with your finger tip, so that a broader surface of your finger makes contact with the button.

A2 The UDF button only works when the Easy Button Manager program icon is registered to the Taskbar notification area. When you cannot find the icon in the Taskbar, select **Start > All Programs > Samsung > Easy Button Manager > Easy Button Manager** to launch Easy Button Manager, and try again.

A3 The VOL+/- buttons only work when the Easy Display Manager program icon is registered to the Taskbar notification area. When you cannot find the icon in the Taskbar, select **Start > All Programs > Samsung > Easy Display Manager > Easy Display Manager** to launch Easy Display Manager, and try again.

Product Specifications (NP-Q1 Ultra)

The system specifications may differ depending on the derived models. For detailed system specifications, refer to the product catalog.

CPU (Optional)	Intel ULV CPU
Cache Memory (Optional)	512KB
Main Memory (Optional)	512MB~1GB, MAX 1GB, Memory type: DDR2 SODIMM
Main Chipset (Optional)	Intel 945GU
Hard Disk Drive (Optional)	1.8” HDD, 40/60/80GB
Graphics (Optional)	Intel Graphic Media Accelerator 945
Sound Chipset	HD Audio, ALC262 Codec
Network (Optional)	Wired LAN: Broadcom BCM4401E 10/100 PCI Ethernet Controller Wireless LAN: 802.11BG Bluetooth 2.0+EDR
Multi Card Slot (Optional)	SD Card / MMC
Ports (Optional)	USB 2.0 x 2, Video (Monitor) Out Port, Headphone Jack, Wired LAN Port, DC-in Jack
Dimensions	227.5 x 123.9 x 22.9~23.9mm
LCD	7” WSVGA (1024x600)
Weight (Optional)	A mere 690g (1.52lb) (Without optional items)
Battery (Optional)	Lithium-Ion smart battery: 4 Cells or 6 Cells
Operating Environment	Temperature (storage) : -5 ~ 40°C (operation) : 10 ~ 35°C Humidity (storage) : 5% ~ 90% (operation) : 20% ~ 80%
Operating Voltage	100 - 240VAC
Frequency	50 / 60Hz
Output Power (Optional)	60W
Output Voltage	19VDC 3.16A(60W)

- Optional components may not be provided or different components may be provided depending on the computer model.
- The system specifications are subject to change without notice.
- The hard disk drive capacity of a computer in which Samsung Recovery Solution is installed, is represented as smaller than the product specification.

Wireless LAN Specifications (802.11a/b/g, 802.11n Card)

Intel 802.11ABG WLAN

■ **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations
		Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

■ Radio Specifications

RF Band	2.4GHz, 5GHz
Supported Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10mW
Modulation Scheme	11a mode : OFDM
	11b mode : DSSS
	11g mode : OFDM
Data Rate (Mbps)*	11a mode** : 54, 48, 36, 24, 18, 12, 9, 6
	11b mode : 11, 5.5, 2, 1
	11g mode*** : 54, 48, 36, 24, 18, 12, 9, 6
Antenna Type	Built-in Antenna

* The data rate may differ from the real data transmission rate.

** 11a mode is only supported when the device is connected to an IEEE 802.11a device. (e.g. Access Point supporting IEEE 802.11a)

*** 11g mode is only supported when the device is connected to an IEEE 802.11g device. (e.g. Access Point supporting IEEE 802.11g)

Intel 802.11AGN WLAN

■ **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations
		Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

■ Radio Specifications

RF Band	2.4GHz, 5GHz
Supported Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10mW
Modulation Scheme	11a mode : OFDM
	11b mode : DSSS
	11g mode : OFDM
	11n mode : MIMO
Data Rate (Mbps)*	11a mode** : 54, 48, 36, 24, 18, 12, 9, 6
	11b mode : 11, 5.5, 2, 1
	11g mode*** : 54, 48, 36, 24, 18, 12, 9, 6
	11n mode**** : 300, 270, 243, 216, 162, 144, 130, 117, 108, 104, 81, 78, 54, 52, 39, 27, 26, 13
Antenna Type	Built-in Antenna

* The data rate may differ from the real data transmission rate.

** 11a mode is only supported when the device is connected to an IEEE 802.11a device. (e.g. Access Point supporting IEEE 802.11a)

*** 11g mode is only supported when the device is connected to an IEEE 802.11g device. (e.g. Access Point supporting IEEE 802.11g)

**** 11n mode is only supported when it is connected to an IEEE802.11n device (e.g. Access Point supporting IEEE802.11n).

Wireless LAN Specifications (802.11BG Card)

Intel 802.11BG WLAN

■ **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations
		Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

■ Radio Specifications

RF Band	2.4GHz
Supported Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10mW
Modulation Scheme	11b mode : DSSS
	11g mode : OFDM
Data Rate (Mbps)*	11b mode : 11, 5.5, 2, 1
	11g mode** : 54, 48, 36, 24, 18, 12, 9, 6
Antenna Type	Built-in Antenna

* The data rate may differ from the real data transmission rate.

** 11g mode is only supported when the device is connected to an IEEE 802.11g device. (e.g. Access Point supporting IEEE 802.11g)

Atheros 802.11BG WLAN

■ **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

■ Radio Specifications

RF Band	2.4GHz
Supported Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10mW
Modulation Scheme	11b mode : DSSS
	11g mode : OFDM
Data Rate (Mbps)*	11b mode : 11, 5.5, 2, 1
	11g mode** : 54, 48, 36, 24, 18, 12, 9, 6
Antenna Type	Built-in Antenna

* The data rate may differ from the real data transmission rate.

** 11g mode is supported only when you are connected to an IEEE 802.11g device (e.g. An Access Point supporting IEEE 802.11g).

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ENERGY STAR® Partner

As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Glossary

The Glossary lists the terminologies used in this User Guide.
For terminologies other than these, look in Windows Help.

Backup
A way to save the current data to restore it later if necessary. A backup is a way to restore computer data when the data or computer is damaged.

Client
This refers to a computer that uses a shared network resource provided by a server.

DDR SDRAM (Double Data Rate Synchronous Dynamic Random Access Memory)
DRAM is a memory type whose cells consist of a capacitor and transistor manufactured at a low price. SDRAM is a memory type whose performance has been improved by synchronizing the clock with the external CPU clock. DDR SDRAM is a memory type whose performance has been improved by doubling the operating speed of the SDRAM and is widely used nowadays. This computer uses DDR SDRAM.

Device Manager
An administrative tool used to manage computer devices. You can add or remove hardware or update a device driver using the Device Manager.

Direct X
An application interface developed to enable Windows application programs to access hardware devices at a very high speed. Since the operating speed of graphics, memory and sound cards must be very fast to provide high quality video and sound for games, Direct X enables faster control and interaction between applications and hardware devices. By using Direct X, the multimedia performance of Windows has been hugely improved.

Driver
Software that interacts between the hardware and the operating system. An operating system knows the hardware information and controls the hardware. In general, a driver is supplied with the corresponding hardware device.

DVD (Digital Versatile Disk)
DVD was developed to replace CD (compact disk). Although the shape and size of the disc are the same as that of a CD, the capacity of a DVD is at least 4.7GB while the capacity of a CD is 600MB. DVD video is digital unlike VHS (analog) video and supports MPEG2 compression and digital audio. To play a DVD, a DVD drive is required.

Firewall
A security system used to protect an internal network or intranet from external networks through an authentication procedure.

Hibernation Mode
A power mode that saves all data in memory to the hard disk and turns the CPU and hard disk off. When canceling Hibernation Mode, all application programs that were running are restored to their last state.

Icon
This refers to a small image that represents a file that users can use.

LAN (Local Area Network)
A communications network connecting computers, printers and other devices within a local area such as within a building. A LAN enables all connected devices to interact with other devices on the network. The current LAN uses the Ethernet media access control method developed in the early 1980s. To connect to an Ethernet, a network card called a LAN card, Ethernet card or network interface card is required. To exchange data between computers, a protocol is required besides the hardware equipment. Windows XP uses TCP/IP as the default protocol.

LCD (Liquid Crystal Display)
There are Passive Matrix and Active Matrix LCD types. This computer uses the Active Matrix type LCD called a TFT LCD. Since an LCD is implemented by transistors instead of a cathode-ray tube unlike a CRT, its size can be slim. And because it does not blink, it reduces eye strain.

Network
A group of computers and devices, such as printers and scanners, connected by a communications link. A network can be either small or large and can be connected permanently through cables or temporarily through telephone lines or wireless links. The biggest network is the Internet, a worldwide network.

Network Administrator
A user who plans, configures and manages network operations. Sometimes, a network administrator is called a system administrator.

Notification Area
This refers to the right area of the Taskbar including program icons such as the volume control, the power options and the time.

Power Schemes
This refers to a pre-determined power management option group. For example, you can set the time the computer waits before entering Standby Mode, or before the monitor or hard drive turns off. The settings are saved as a power scheme.

Quick Launch
This refers to a toolbar that can be configured so that you can launch a program such as Internet Explorer or display the Windows Desktop with one click. You can add any icon to the quick launch area of the Taskbar and launch frequently used program by clicking that icon.

Server
In general, a server refers to a computer that provides shared resources for network users.

Share
This refers to setting a resource of a computer such as a folder or printer so that other users can also use it.

Shared Folder
A folder that can be used by other users on the network.

Sleep Mode
A power mode that enables computers to save power consumption when they are not being used. When a computer is in Sleep Mode, the data on the computer memory is not saved to the hard disk. If the power is tuned off, the data in memory will be lost.

System File
System Files refer to files that are read and used by the Windows operating system. In general, system files must not be deleted or moved.

USB (Universal Serial Bus)
This refers to a serial interface standard developed to replace the conventional interface standards such as Serial and PS/2. While USB 1.1 supports 12Mbps (12 million bits per second), USB 2.0 supports a data rate that is 40 times (480Mpbs) faster than that of USB 1.1. The data rate of USB 2.0 is equivalent to that of IEEE1394. Therefore USB 2.0 is used for A/V devices supported by IEEE 1394 and a 2nd HDD and CDRW that require a high data rate.

Windows Media Player
A multimedia program included with Windows. Using this program, you can play a media file, create an audio CD, listen to a radio broadcast, search and manage media files, and copy files to a portable device, etc.

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Contact SAMSUNG WORLD WIDE

[U.S.A. / U.K.] Contact SAMSUNG WORLD WIDE

If you have any comments or questions regarding a Samsung products, contact the SAMSUNG customer care center.

Customer Care Center	TEL	Web Site
U.S.A.	1-800-SAMSUNG (726-7864)	www.samsung.com/us
U.K.	0870-SAMSUNG (726-7864)	www.samsung.com/uk

[GERMANY] Kontakt zu Samsung

Falls Sie Fragen oder Anregungen zu Samsung-Produkten haben, wenden Sie sich bitte an den Samsung-Kundendienst.

Customer Care Center	TEL	Web Site
GERMANY	01805 121213 (€ 0,14/Min)	www.samsung.de

[FRANCE] Comment contacter Samsung dans le monde

Si vous avez des suggestions ou des questions concernant les produits Samsung, veuillez contacter le Service Consommateurs Samsung.

Customer Care Center	TEL	Web Site
FRANCE	3260 SAMSUNG (726-7864) 08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr

[SPAIN] Contacte con SAMSUNG WORLD WIDE

Si tiene alguna pregunta o comentario referente a nuestros productos, por favor contacte con nuestro Servicio de Atencion al Cliente.

Customer Care Center	TEL	Web Site
SPAIN	902 10 11 30	www.samsung.com/es

[ITALY] Contatta SAMSUNG

Se hai commenti o richieste sui prodotti Samsung contatta il nostro Servizio Clienti.

Customer Care Center	TEL	Web Site
ITALY	800-SAMSUNG (726-7864)	www.samsung.com/it

[POLAND] Kontakt z firmą SAMSUNG

W sprawie jakichkolwiek pytań, czy wątpliwości dotyczących produktów SAMSUNG, prosimy o kontakt z telefonicznym Centrum Obsługi Klienta.

Customer Care Center	TEL	Web Site
POLAND	0801-1-SAMSUNG (726-78) 022-SAMSUNG (726-7864)	www.samsung.com/pl

[RUSSIA / UKRAINE] Связывайтесь с SAMSUNG по всему миру

Если у вас есть предложения или вопросы по продуктам Samsung, связывайтесь с информационным центром Samsung.

Customer Care Center	TEL	Web Site
RUSSIA	8-800-555-55-55	www.samsung.ru
UKRAINE	8-800-502-0000	www.samsung.ua

[CHINA] 三星全球服务网

如果您对三星产品有任何咨询或建议，请联系三星客服中心

Customer Care Center	TEL	Web Site
CHINA	400-810-5858	www.samsung.com.cn

[HONGKONG] Contact SAMSUNG WORLD WIDE

If you have any comments or questions regarding a Samsung products, contact the SAMSUNG customer care center.

Customer Care Center	TEL	Web Site
HONGKONG	3698-4698	www.samsung.com/hk

[NETHERLAND / BELGIUM] Contact opnemen met SAMSUNG klantenservice

Als u vragen of opmerkingen heeft met betrekking tot een Samsung-product, kunt u contact opnemen met de Samsung klantenservice:

Si vous avez des suggestions ou des questions concernant les produits Samsung, veuillez contacter le Service Consommateurs Samsung.

Customer Care Center	TEL	Web Site
NETHERLAND	0900-SAMSUNG (726-786 4) (0,10 €/min.)	www.samsung.com/nl
BELGIUM	02 201 24 18	www.samsung.com/be

[TURKEY] SAMSUNG Turkiye'ye Ulasin

Samsung ürünleriyle ilgili tüm soru ve yorumlarınız için Samsung Çağrı Merkezi ile temasa geçebilirsiniz.

Customer Care Center	TEL	Web Site
TURKEY	444 77 11	www.samsung.com/tr